

STRUCTURAL NOTES

9009; 91.4 PSP - 22842 PTICH OR LESS 94.8 PSP - 22842 TO "12 PTICH 21 PSP - 142 TO EAS PTICH THE POSITION AND HEAVITY DESIGN PRESSURES REQUIRED FOR ANY RACE OR SALL CLANDERS APPLICATED WITH SPECIFICALLY ADDRESSED IN THE MORTH CANODAS APPLICATED LOCK - 20% BOTTON SHALL BE AS POLLORS. THE POSITIVE AND REGATIVE DEBICAL PRESSURE FOR DOORS AND MINORE YES A REAL ROOF HEIGHT OF 35 PRET OF LESS SHALL SE 25 PRF. BCX LETTELS SHALL BE 3 V27-0 V27-0/4" STEEL ANGLE FOR UP TO -0" SPAN AND 6'457-5/9" STEEL ANGLE STH 6" LEG VERTICAL FOR VANS UP TO 4-0" GROO. ALL BOODEN BEAMS AND HEADERS BHALL HAVE THE POLLCHING BED GEFFORTS. © 244 STED COLUMN POR 6-0" BALL BEAM BEAM BROW (20 224 BTIDG FOR BEAM SPAN GREATER THAN 6-0" BINGS. LICHARLE SOR, MENSION PRESIDENT AND TO BE 2000 PM, THE CONTRACTOR MENTAL CONTRACTOR SECURITION FOR SHAPE AND THE MENTAL CONTRACTOR SECURITION FOR SHAPE AND THE MENTAL RANGE AND SHAPE AN THE ARTORITY AND LOCATION OF BRACING SHALL COPPRY WITH TABLE RADQUOL THE LINGTH OF BRACING PARELS SHALL BE DETERMINED BY SECTION RADQUOL. ATTRIAL BRACING SHALL BE ANTHEOD BY SECTION RADQUOLS. SHALL BE SHALL BE SHIPHED PER WITHOU B BY CONTRIBUOUSLY SHEATHING PER SECTION RADQUOL. SHALL BE INSTALLED AND SPECIFIED. NOTE THAT ANY SPECIFIC BRACING MAIL DETYAL SHALL BE INSTALLED AND SPECIFIED. DOMS OTHER THAN SLEEPING ROOMS DESIGN LOADS (RSOL4) ANAL DE LAMANTED VIEIRE ILIBER PA-2000 PM, PA-200 PM, BA-400 PM, BA-400 PM, BA-400 PM, BA-400 PM, PA-700 PM, BA-200 PM, B BRACEG: BRACED EALL PAKELS SHALL BE CONSTRUCTED ACCORDING TO DN RUDZIOS. OR BALCONES LOADS REGION LIVE LOAD DEAD I CONSTRUCTION TO THE THAN SLEEPING ROOMS 40 FOR THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER STIEM, SHALL BE ADTH A-SK ATTEM DEATHS SHALL BE
MACH BOD STITA, I REMOVE SHALL BE ADMINISTRATION OF SUPERIORS
BUILT, REMOVING SHALL BEASHERS AS SHALL BE ANY SHALL BE ADMINISTRATION OF SUPERIOR SHALL BE ADMINISTRATION OF SUPERIOR TO COMMUNICATION OF SUPERIOR SHALL BE ADMINISTRATION OF SUPERIOR SHALL BE ADMINISTRATION OF SUPERIOR AND SHALL BE ADMINISTRATION OF SUPERIOR SHALL BE STEEL, ASTINUE, GRADE 40. - OVER 4' UP TO 8' SPAN; (I) KING, STUD-OVER 8' UP TO 8' SPAN; (2) KING, STUD-OVER 8' UP TO 11' SPAN; (3) KINGS STUDS OVER 11' SPAN; (4) KING, STUDS L ALL EXTERIOR AND LOAD BEARNO, HEADERS SHALL BE MIN. (2) 240 (4" WALL) OR (3) 240 (6" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE: HEADER/BEAM (COLUMN NOTES SLAB FND. W/ STEM WALL UD POCKET OR
TIBER OF KING STUDS AT
HEADERS IN EXTERIOR WALLS
OR AS BELOW: TYPICAL THICKENED SLAB TYPICAL 6, CAN MYT URBOHL WIT ANK.D - 8" CHIL HEADER BLOCK OF PLACE BOD BEING TO COMPACTED PLL AS READ DRIZ REMPORCEMENT AS REQUI. AT BEAM AND THICKENED SLAB STUDO AS SPECIFIC CA CONCRETE BLAB F PLATE BIDS GERBED TO TURN DOWN SLAB FOOTING KEATED SILL FLOOR JOIST CRAWL SECTION V* DA, IT BIBEDKENT)
ANCHOR BOLTS • 4'-0" OC
ANCHOR TOCKTON AT DOOR OPENIGE)
LOCATE IT PROY PLATE BIDS PLATE PLATE 24 STUDS . N. OC A CONCRETE SLAB BY CONCRETE -CONCRETE E-870K CONC FTG FINSH GRADE SCHOOL OR THEOCK BAND MATERIAL SUBFLOOR 2M STUDS CHICAN BLOCK 8" SOLID CAP-STEWNED. TURN DOWN SLAB 9 GARAGE GARAGE SLAB IN THE POST OF THE PARTY OF THE THE CHINE TO STAN ANCHOR BOATS & 6'-O' OC. OF PLANE BIDS (BIBB) TO LEBONG TO H SQUARED HOME DESIGN, INC. HEATHER HALL 185 HEATHERSTONE CT BENBON NC 27504 (SIGN 207-1409) NOT ALL DETAILS MAY APPLY TO THIS PLAN DETAIL SHEET 115/120 MPH WIND ZONE

A CONN.

A C THE PORTING AND REACHTRE DENIA PRESSURE REQUIRED FOR ANY ROOF OR THE PORTING AND REACHTREAD THE MORTH OF CHARLES IN THE MORTH OF THE MO THE POSITIVE AND MEGATIVE DESIGN PRESSURE FOR DOORS AND SHIDOWS FOR A REAL BOOK HEIGHT OF 35 PRET OR LIESS SHALL BE 25 PSF. ALL STRECTURAL STREE, SHALL BE ASTA, ASE, STREE, BEARTS SHALL BE SEPART SHALL BE THE STATE OF THE S CONCIDENTE SHALL HAVE A MINERS SO DAY STREAKTH OF SCOOP SHAND A AND A HAVING SHAND A CONCIDENT SHALL SHAND A SHAND SHALL SHAND ALL PRANNIG LUTBER SHALL BE 37° 22 (TA = 8'15 PQ) UNLESS NOTED C'HEROESE RINC). ALL TREATED LUTBER SHALL BE 81° 8 2 (TA)=15 PC). PLATE KATERNAL NAY BE 58° 8 3 CR 81° 85 (Ta)=19 4 28° PC) = 190. MODRIT AND LOCATION OF BRACIES WALL COPEY WITH TABLE RACKIO. LENGTH OF BRACIES PARKS SHALL BE BRITISHED BY CONCININ BOOKLO. A SHALL BEEN PRINCIPLAL BEEN RETHING 3 NO CONCININ BOOKLO. A THREE SHALL BEEN PRINCIPLAL BEEN PRINCIPLAR BEEN PRIN B 644L BE BALTED TOGETHER WIND 20 ROBE OF L/T DAVETER BOLTS WITH SAUSES FLACED BEISE THE THEAUED BID OF BOLT. BOLTS WADD AT 24 OLD RAVIQ AND SYLCASSED AT THE TOP AND BOTTOM BOGE DISTANCIA, WITH 2 BOLTS LOCATED AT 6" FROM BACH BID. SRACED BALL PANELS SHALL BE CONSTRUCTED ACCORDING TO 12 m - OVER 8' UPAN: (1) KING STUDS - OVER 8' UP TO 8' SPAN: (2) KING STUDS - OVER 8' UP TO 1' SPAN: (3) KINGS STUDS - OVER 1' SPAN: (4) KING STUDS 2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS NUDGATES THE NUMBER OF SUPPORT STUDS OF COLUMN. THE NUMBER OF KING STUDS AT COLUMN. THE NUMBER OF KING STUDS AT SAALE BE ACCORDING TO TEN 4" IN TABLE RUO.2555 OR AS BELOW: I. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 240 ("WALL) OR 73) 240 ("WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE. HEADER/BEAM (COLUMN NOTES SLAB FND. W/ STEM WALL 語の記記部 TYPICAL THICKENED SLAB TYPICAL THICKENED SLAB OF CHILL HEADER BLOCK OF PLATE BIDS (BIBED B) I CHI WALL SHEIGHT WILL VARY COMPACTED PLL AS READ RENFORCEMENT AS REQ'D. -BTUDS AS SPECIFIED C & CONCRETE SLAB OF PLATE BIDS (ERBID) BY THE GRING BOTT STATE TURN DOWN SLAB FOOTING FLOOR JOST CRAWL SECTION TO BROCK V2" DIA (7" EMBEDMENT)
ANCHOR BOLTS 9 5"-0" OC
MADAIST LOCATION AT DOOR OFEWIGS)
LOCATE 2" PROM PLATE ENDS PLATE PLATE 2M STUDO " N" OC -CONCRETE AND RECORDED STATE OF 所の他にはあまる - FINISH GRADE 유 SUBFLOOR 2nd STUDS BAND MATERIAL SUN ON BLOCK 8" SOLID CAP-GRADE -STEWN PROPERTY. TURN DOWN SLAB . GARAGE GARAGE SLAB THE PARTY BELLEVIES MANAGO GTON MAINS SATISTICA TREASON T POWDATION BULL V2" DA ANCHOR BOLTO " 6'-0" O.C.
AND RITING CO" PLATE ENDS
GREAD " NTO CONCRETE OF TANKE MICHIGAN BY EMPANSION JOHT T. RONCE THE PROPERTY OF H SQUARED HOME DESIGN, INC. HEATHER HALL. 165 HEATHERSTONE CT BENSON NC 27504 1689 207-1403 NOT ALL DETAILS MAY APPLY TO THIS PLAN DETAIL SHEET 130 WIND MPH ZONE



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 24120078-01

Coats-Charleston 1270-Roof-Charleston 1270 VFR

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: I71239836 thru I71239851

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



February 7,2025

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 Ply Truss Truss Type Qty Coats-Charleston 1270-Roof-Charleston 1270 VFR 171239836 24120078-01 A1-2 Hip Girder 2 2 ob Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37:00 ID:r6hhtGdpMkx6S3CSekV76vy9ZmB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

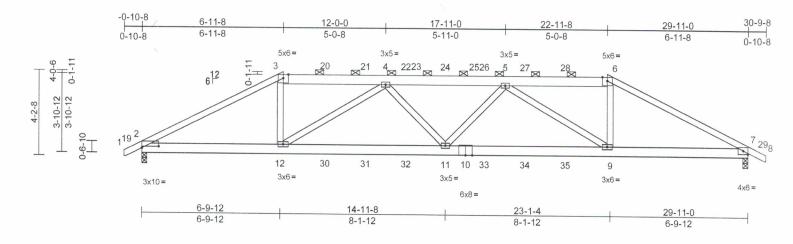


Plate Offsets (X, Y):	[2:0-10-0,0-0-1	4]										
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0 *	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2021/TPI2014	CSI TC BC WB Matrix-MSH	0.82 0.97 0.52	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.20 -0.38 0.08	(loc) 9-11 9-11 7	l/defl >999 >938 n/a	240 180 n/a	PLATES MT20 Weight: 347 lb	GRIP 244/190

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 3-6:2x6 SP No.2 **BOT CHORD** 2x6 SP 2400F 2.0E *Except* 10-7:2x6 SP

No.2 WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-11-0 oc purlins, except

2-0-0 oc purlins (5-1-2 max.): 3-6. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 2=0-3-0, 7=0-3-0

Max Horiz 2=-39 (LC 9)

Max Grav 2=3157 (LC 36), 7=3157 (LC 36)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/32, 2-3=-6099/0, 3-4=-5321/0,

4-5=-8177/0, 5-6=-5331/0, 6-7=-6114/0,

7-8=0/32

2-12=0/5413, 11-12=0/7601, 9-11=0/7598,

BOT CHORD 7-9=0/5424

3-12=0/2496, 6-9=0/2506, 4-11=0/914.

4-12=-2746/0, 5-11=0/918, 5-9=-2730/0

WEBS 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, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Web 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
- 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); cantilever left and right exposed; end vertical left and right exposed; 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=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design
- 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 non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- 10) Bearings are assumed to be: Joint 2 SP 2400F 2.0E, Joint 7 SP No.2
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 36 lb up at 6-11-8, 81 lb down and 34 lb up at 9-0-4, 81 lb down and 34 lb up at 11-0-4, 162 lb down at 13-0-4, 162 lb down at 14-11-8, 162 lb down at 16-10-12, 81 lb down and 34 lb up at 18-10-12, and 81 lb down and 34 lb up at 20-10-12, and 81 lb down and 36 lb up at 22-11-8 on top chord, and 728 lb down at 6-11-8, 190 lb down at 9-0-4, 190 lb down at 11-0-4, 270 lb down at 13-0-4, 270 lb down at 14-11-8, 270 lb down at 16-10-12, 190 lb down at 18-10-12, and 190 lb down at 20-10-12, and 728 lb down at 22-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-48, 3-6=-58, 6-8=-48, 13-16=-20 Concentrated Loads (lb)



February 7,2025

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIT-7473 rev. IZZZZZ3 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 demage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP1 Quality Critoria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Buildina Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com) eters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Roa Edenton, NC 27932

 Job
 Truss
 Truss Type
 Qty
 Ply
 Coats-Charleston 1270-Roof-Charleston 1270 VFR

 24120078-01
 A1-2
 Hip Girder
 2
 2
 Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37;00 ID:r6hhtGdpMkx6S3CSekV76vy9ZmB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

11=-270 (B), 20=-52 (B), 21=-52 (B), 22=-132 (B), 24=-132 (B), 26=-132 (B), 27=-52 (B), 28=-52 (B), 30=-190 (B), 31=-190 (B), 32=-270 (B), 33=-270 (B), 34=-190 (B), 35=-190 (B)

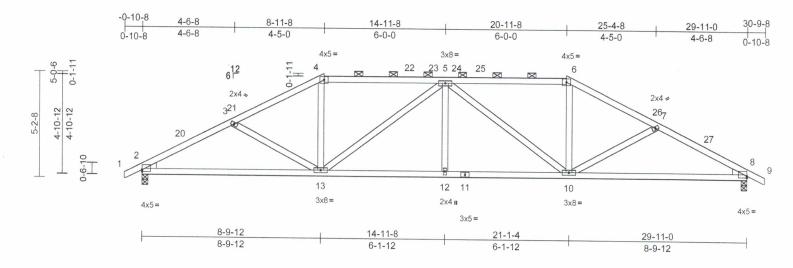
Vert: 3=-57 (B), 6=-57 (B), 12=-728 (B), 9=-728 (B),

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Coats-Charleston 1270-Roof-Charleston 1270 VFR
24120078-01	A2	Hip	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37:01

Page: 1



Scale = 1:56.6

Plate Offsets	(X, Y):	[2:Edge,0-1-2],	[8:Edge,0-1-2]
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Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	(psf) 20.0 18.9/20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	CSI TC BC WB Matrix-MSH	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.13 -0.25 0.09	(loc) 12-13 12-13 8	l/defl >999 >999 n/a	 PLATES MT20	GRIP 244/190
BCDL	10.0								Weight: 153 lb	FT = 20%

LUMBER

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

3-6-1 oc purlins, except 2-0-0 oc purlins (3-8-8 max.): 4-6.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

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

Max Horiz 2=-49 (LC 13)

Max Grav 2=1296 (LC 44), 8=1296 (LC 44)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension

1-2=0/32, 2-3=-2124/236, 3-4=-1904/196, 4-5=-1677/203, 5-6=-1677/203,

6-7=-1904/196, 7-8=-2124/236, 8-9=0/32

BOT CHORD 2-13=-144/1830, 12-13=-98/2125,

10-12=-98/2125, 8-10=-153/1831 3-13=-351/113, 4-13=0/521, 5-13=-607/60,

5-12=0/117, 5-10=-607/60, 6-10=0/521,

7-10=-351/113

NOTES

WEBS

1) Unbalanced roof live loads have been considered for this design.

- 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) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 8-11-8, Exterior(2R) 8-11-8 to 13-2-7, Interior (1) 13-2-7 to 20-11-8, Exterior(2R) 20-11-8 to 25-2-7, Interior (1) 25-2-7 to 30-9-1 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 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 non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- All bearings are assumed to be SP No.2
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

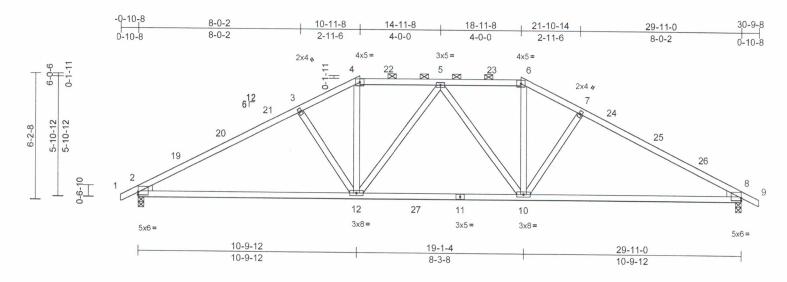
LOAD CASE(S) Standard



February 7,2025

Job	Truss	Truss Type	Qty	Ply	Coats-Charleston 1270-Roof-Charleston 1270 VFR
24120078-01	A3	Hip	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37:02 ID: EKkhgEdNgYckdTxhrW1uocy9ZnT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff



Scale = 1:56.8

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL		Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	CSI TC BC WB Matrix-MSH	0.85	DEFL Vert(LL) Vert(CT) Horz(CT)	(loc) 10-15 10-15 8	I/defl >999 >683 n/a	240 180 n/a	PLATES MT20	GRIP 244/190	
BCDL	10.0									Weight: 148 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.1 *Except* 4-6:2x4 SP No.2

Plate Offsets (X, Y): [2:Edge,0-1-10], [8:Edge,0-1-10]

BOT CHORD 2x4 SP No.1 **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

2-2-0 oc purlins, except 2-0-0 oc purlins (4-2-13 max.): 4-6.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=-59 (LC 13)

Max Grav 2=1450 (LC 50), 8=1450 (LC 50) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/32, 2-3=-2490/225, 3-4=-2183/219,

4-5=-1869/203, 5-6=-1869/203,

6-7=-2182/219, 7-8=-2490/225, 8-9=0/32

2-12=-232/2106, 10-12=-60/1929,

BOT CHORD 8-10=-236/2107

WEBS 3-12=-494/149, 4-12=-57/866, 6-10=-57/866,

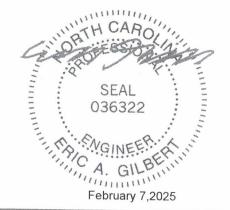
7-10=-494/149, 5-12=-296/71, 5-10=-296/71

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 10-11-8, Exterior(2R) 10-11-8 to 14-11-8, Interior (1) 14-11-8 to 18-11-8, Exterior(2R) 18-11-8 to 23-2-7, Interior (1) 23-2-7 to 30-9-1 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=1.33

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 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 non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding
- * 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



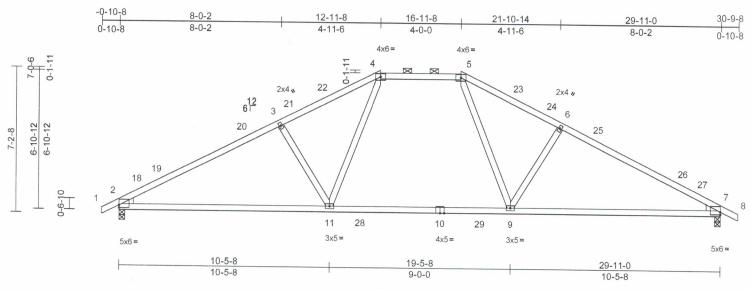
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE WARNING - Verity design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE
Design valid for use only with MITEK® connectors. 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/TP1 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	Coats-Charleston 1270-Roof-Charleston 1270 VFR
24120078-01	A4	Hip	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37:02

Page: 1



Scale = 1:57

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	(psf) 20.0 18.9/20.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI TC BC WB	0.76 0.88 0.33	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.34 -0.55 0.07	(loc) 9-14 9-14	l/defl >999 >654 n/a		PLATES MT20	GRIP 244/190
BCLL BCDL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH		110.2(01)	0.07	,	11/4	11/4		
BCDL	10.0										Weight: 133 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 *Except* 4-5:2x4 SP No.2 BOT CHORD 2x4 SP No.1 WFBS 2x4 SP No.3 WEDGE Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-2-0 oc purlins, except

2-0-0 oc purlins (4-4-3 max.): 4-5. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 7=0-3-8

Max Horiz 2=-70 (LC 13)

Max Grav 2=1507 (LC 50), 7=1507 (LC 50) (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/28, 2-3=-2731/222, 3-4=-2465/234,

4-5=-1829/226, 5-6=-2465/234,

6-7=-2731/222, 7-8=0/28 2-11=-224/2330, 9-11=-20/1764,

7-9=-216/2330

3-11=-520/162, 4-11=-22/880, 5-9=-22/880,

WEBS 6-9=-520/162

NOTES

FORCES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 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) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 12-11-8, Exterior(2E) 12-11-8 to 16-11-8, Exterior(2R) 16-11-8 to 21-2-7, Interior (1) 21-2-7 to 30-9-1 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=1.33

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design
- 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 non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



February 7,2025

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 MITE&® connectors. This design is based only upon parameters shown, and is for an inidividual 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 abrication, 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 Struster Building Approach Acceptable (www.tpinst.org). and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Edenton, NC 27932

Job Truss Ply Truss Type Qty Coats-Charleston 1270-Roof-Charleston 1270 VFR 24120078-01 A5 171239840 Common Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37:02 ID:Dx68ET_aHg6GQVBQNVDwjYy9ZxK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

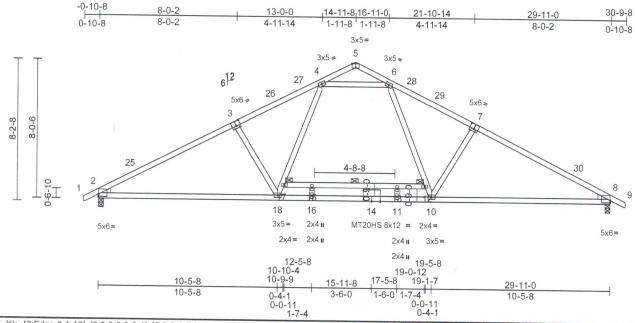


Plate Offsets (X, Y): [2:Edge,0-1-10], [3:0-3-0,0-3-4], [5:0-2-8,Edge], [7:0-3-0,0-3-4], [8:Edge,0-1-10]

Loading (p TCLL (roof) 20 Snow (Pf/Pg) 13.9/20 TCDL 10 BCLL 0 BCDL 10	Lumber DOL Rep Stress Incr * Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	BC (0.79	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 13-15 13-15 8		240	PLATES MT20 MT20HS	GRIP 244/190 187/143	
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LUMBER

Scale = 1:66.9

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

2x4 SP 2400F 2.0E *Except* 17-12:2x4 SP

No.2 WEBS 2x4 SP No.2

WEDGE Left: 2x4 SP No.3

Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8 8=0-3-8

Max Horiz 2=-81 (LC 13)

Max Grav 2=1638 (LC 3), 8=1638 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/28, 2-4=-3066/0, 4-5=-125/47,

BOT CHORD

5-6=-125/47, 6-8=-3066/0, 8-9=0/28 2-18=-136/2637, 16-18=0/2121,

11-16=0/2121, 10-11=0/2121,

8-10=-129/2638, 15-17=-63/0, 13-15=-63/0, 12-13=-63/0

15-16=-108/2, 11-13=-108/2, 7-10=-431/168, 3-18=-431/168, 4-6=-2052/0, 17-18=0/966,

4-17=0/1080, 6-12=0/1080, 10-12=0/966

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- 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) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 14-11-8, Exterior(2R) 14-11-8 to 17-11-8, Interior (1) 17-11-8 to 30-9-1 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=1.33
- 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); 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
- 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 non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 14-11-8 from left end, supported at two points, 5-0-0 apart.
- All plates are MT20 plates unless otherwise indicated.
- * 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP 2400F 2.0E

LOAD CASE(S) Standard



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Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37:02 ID:CAe9Cabls8TKSCFluuDtn_y9a3b-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

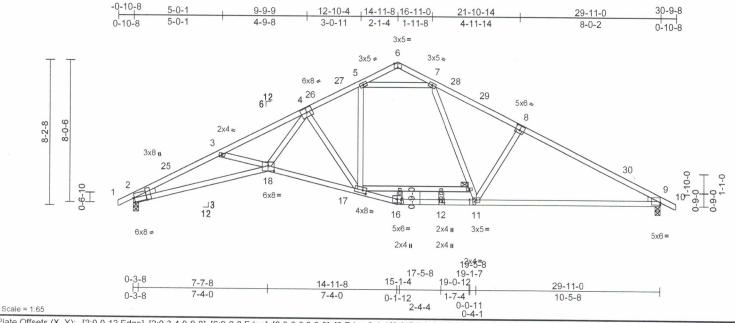


Plate Offsets (X, Y): [2:0-0-12,Edge], [2:0-3-4,0-9-0], [6:0-2-8,Edge], [8:0-3-0,0-3-0], [9:Edge,0-1-10], [17:0-2-8,0-2-0], [18:0-4-0,0-3-8]

Loading (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 13.9/20.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	CSI TC BC WB Matrix-MSH	0.93	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 17-18 17-18 9	l/defl >762 >449 n/a	240 180 n/a	PLATES MT20 Weight: 161 lb	GRIP 244/190	
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LUMBER

TOP CHORD 2x4 SP No.1 *Except* 6-8,8-10:2x4 SP No.2 BOT CHORD 2x4 SP No.1 *Except* 2-18:2x4 SP 2400F

2.0E, 17-13:2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 7-11:2x4 SP No.2
WEDGE Left: 2x4 SP No.3

VEDGE Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except: 2-2-0 oc bracing: 9-11.

REACTIONS (size) 2=0-3-8, 9=0-3-8

Max Horiz 2=81 (LC 14)

Max Grav 2=1485 (LC 3), 9=1503 (LC 3)

FORCES (lb) - N

(lb) - Maximum Compression/Maximum

Tension

1-2=0/28, 2-3=-4820/184, 3-5=-4694/143,

5-6=-163/45, 6-7=-302/48, 7-9=-2750/141,

9-10=0/28

BOT CHORD 2-18=-101/4337, 17-18=0/3001,

16-17=0/1678, 12-16=0/1669, 11-12=0/1669,

9-11=-190/2357, 15-17=-15/330, 14-15=-17/295, 13-14=-17/295

3-18=-123/131, 4-18=0/2336, 4-17=-1668/88,

5-17=0/1095, 7-13=0/742, 11-13=-3/832.

5-7=-1816/138, 8-11=-399/160,

12-14=-151/0, 15-16=-199/5

NOTES

WEBS

 Unbalanced roof live loads have been considered for this design.

- 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) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 14-11-8, Exterior(2R) 14-11-8 to 17-11-8, Interior (1) 17-11-8 to 30-9-1 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=1.33
- 3) 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); 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 non-concurrent with 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearings are assumed to be: Joint 2 SP 2400F 2.0E, Joint 9 SP No.1.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

LOAD CASE(S) Standard



February 7,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. IZ/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 chort 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/TPH 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)

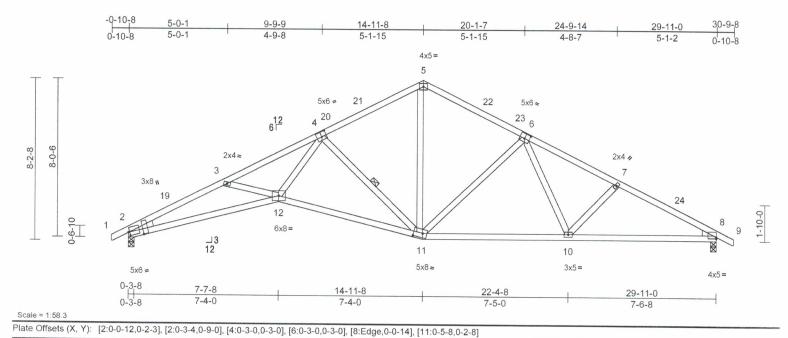


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Coats-Charleston 1270-Roof-Charleston 1270 VFR
24120078-01	A7	Roof Special	4	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37:02 ID:CAe9Cabls8TKSCFluuDtn_y9a3b-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



BCDL LUMBER

Loading

TCDL

BCLL

TCLL (roof)

Snow (Pf/Pg)

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 2-12:2x4 SP No.1 **WEBS**

(psf)

20.0

10.0

0.0

10.0

13.9/20.0

2x4 SP No.3 WEDGE Left: 2x4 SP No.3

Right: 2x4 SP No.3

BRACING TOP CHORD

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

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1.15

1.15

YES

IRC2021/TPI2014

BOT CHORD

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

WEBS 1 Row at midnt

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

Max Horiz 2=81 (LC 14)

Max Grav 2=1247 (LC 2), 8=1247 (LC 2)

4-11

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/28, 2-3=-3592/300, 3-5=-3404/245.

5-7=-1950/219, 7-8=-2122/205, 8-9=0/28 2-12=-203/3218, 11-12=-96/2158,

BOT CHORD 10-11=-61/1551, 8-10=-111/1822

5-11=-74/927, 6-11=-552/117, 6-10=0/324,

7-10=-223/99, 3-12=-157/110,

4-12=-13/1700, 4-11=-1289/154

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design
- 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) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 14-11-8, Exterior(2R) 14-11-8 to 17-11-8, Interior (1) 17-11-8 to 30-9-1 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=1.33

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); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.86

0.79

0.70

in (loc)

11-12

11-12

8

-0.22

-0.52

0.22

I/defl

>999

>693

n/a n/a

L/d

240

180

PLATES

MT20

GRIP

Weight: 156 lb FT = 20%

244/190

Unbalanced snow loads have been considered for this design

CSI

TC

BC

WB

Matrix-MSH

- 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 non-concurrent with 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.1, Joint 8
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface

LOAD CASE(S) Standard



February 7,2025

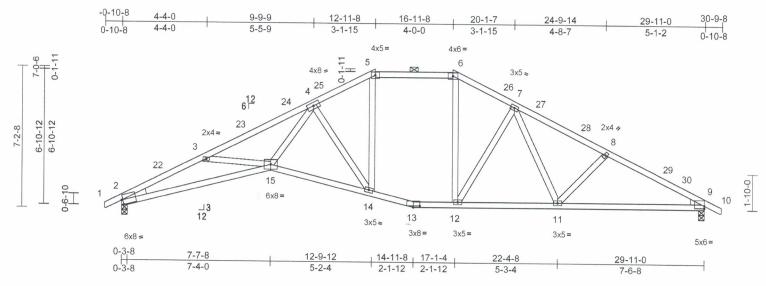
🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE WARRING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MILTAT3 Rev. 1722023 BEFORE USE
Design valid for use only with MITEK® connectors. 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/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org)
and BCSI Building Component Sefaty Information. available from the Structural Building Component Academy in the Component Sefaty Information. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Coats-Charleston 1270-Roof-Charleston 1270 VFR
24120078-01	A8	Hip	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37:02 ID: GuiXkLWACaECHznIH2wdtQy9ZrU-RfC? PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? for all the properties of the properties o

Page: 1



Scale = 1:58.8

Plate Offsets (X, Y): [2:0-0-12, Edge], [9:Edge, 0-1-10], [13:0-4-0, 0-1-0]

Loading (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 18.9/20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	CSI TC BC WB Matrix-MSH	100000000000000000000000000000000000000	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 14-15 14-15 9		240	PLATES MT20 Weight: 159 lb	GRIP 244/190
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LUMBER

TOP CHORD 2x4 SP No.1 *Except* 5-6:2x4 SP No.2 BOT CHORD 2x4 SP No.1 *Except* 15-13:2x4 SP 2400F

2.0E, 13-9:2x4 SP No.2

WEBS 2x4 SP No.3 WEDGE Left: 2x4 SP No.3 Right: 2x4 SP No.3

BRACING

Structural wood sheathing directly applied or TOP CHORD

2-1-0 oc purlins, except

2-0-0 oc purlins (4-1-10 max.): 5-6. **BOT CHORD**

Rigid ceiling directly applied or 2-2-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 9=0-3-8

Max Horiz 2=-70 (LC 13)

Max Grav 2=1445 (LC 44), 9=1446 (LC 44)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/28, 2-3=-4280/336, 3-4=-3988/265, 4-5=-1842/237, 5-6=-1541/223.

6-7=-1769/232, 7-8=-2257/217,

8-9=-2518/219, 9-10=0/28 2-15=-246/3826, 14-15=-101/2490,

13-14=-17/1524, 12-13=-16/1541

11-12=-70/1796, 9-11=-134/2167

3-15=-199/132, 4-15=-32/2048 4-14=-1512/150, 7-12=-484/105, 7-11=0/355.

8-11=-335/103, 5-14=-37/764, 6-12=-29/455

NOTES

WEBS

BOT CHORD

Unbalanced roof live loads have been considered for this design

- 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) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 12-11-8, Exterior(2E) 12-11-8 to 16-11-8, Exterior(2R) 16-11-8 to 21-2-7, Interior (1) 21-2-7 to 30-9-1 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 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 non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 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
- Bearings are assumed to be: Joint 2 SP No.1, Joint 9 SP No.2
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



February 7,2025

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIN 1473 RV. 1/2/2/2/3 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an inidividual 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/TP1 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)

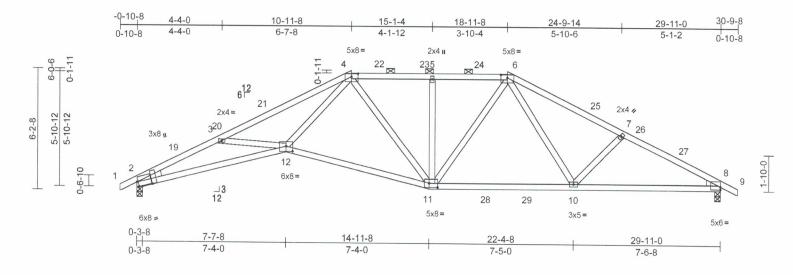


Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Coats-Charleston 1270-Roof-Charleston 1270 VFR
24120078-01	A9	Hip	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37:03 ID:HnPWi2ypA8DJ3FNAmXZXCWy9Zpd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58.7

riate Offsets (X, T).	[2:0-0-12,Edge], [2:0-3-4,0-9-0], [4:0-4-0,0-	1-15], [6:0- 4 -0,0-1-15], [8:Edge	,0-1-10], [11:0-5-4,0-2-8], [12:0	-4-0,0-3-4]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 18.9/20.0 10.0 0.0 *	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	CSI TC BC WB Matrix-MSH	0.95	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 11-12 11-12 8	I/defl >999 >647 n/a	240 180 n/a	PLATES MT20 Weight: 155 lb	GRIP 244/190	
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LUMBER

TOP CHORD 2x4 SP 2400F 2.0E *Except* 4-6:2x4 SP

Plate Offeets (Y V): 12:0.0.12 Edge 1 (2:0.2.1.0.0.0) (4:0.1.0.1

No.2 BOT CHORD

2x4 SP No.2 *Except* 2-12:2x4 SP No.1

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

2-2-0 oc purlins, except

2-0-0 oc purlins (4-0-3 max.): 4-6. BOT CHORD

Rigid ceiling directly applied or 2-2-0 oc

bracing.

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

Max Horiz 2=-59 (LC 13)

Max Grav 2=1446 (LC 50), 8=1454 (LC 50) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=0/32, 2-3=-4611/377, 3-4=-4245/251,

4-5=-1995/226, 5-6=-2002/229, 6-7=-2466/220, 7-8=-2721/228, 8-9=0/32

BOT CHORD 2-12=-288/4161, 11-12=-75/2224,

10-11=-54/1766, 8-10=-146/2344 3-12=-403/194, 4-12=-26/2357, 4-11=-411/47,

5-11=-402/74, 6-11=-21/398, 6-10=0/631, 7-10=-397/135

NOTES

WEBS

1) Unbalanced roof live loads have been considered for this design.

- 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) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 10-11-8, Exterior(2R) 10-11-8 to 15-1-4, Interior (1) 15-1-4 to 18-11-8, Exterior(2R) 18-11-8 to 23-2-7, Interior (1) 23-2-7 to 30-9-1 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 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 non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP No.1, Joint 8
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



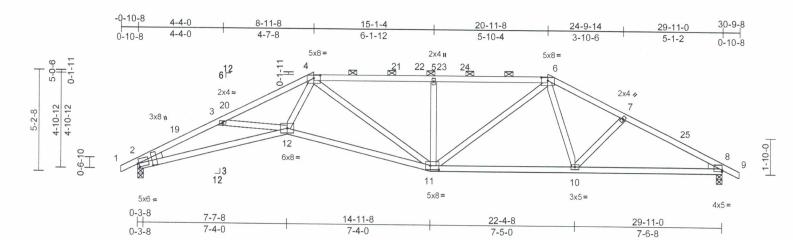
February 7,2025

Edenton NC 27932

Job	Truss	Truss Type	Qty	Ply	Coats-Charleston 1270-Roof-Charleston 1270 VFR
24120078-01	A10	Hip	1	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37:03 ID:eZnhSBex_MHNnsfx2IZgTJy9Zol-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58.6

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	(psf) 20.0 18.9/20.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-4-0,0-1-15], [6:0-4-0,0 2-0-0 1.15 1.15 YES IRC2021/TPI2014	-1-15], [8:Edge,0-0	0.75 0.85	DEFL	in -0.21 -0.49 0.21	(loc) 11-12 11-12 8	l/defl >999 >729 n/a	 PLATES MT20	GRIP 244/190
BCDL	10.0	ouc	11(02021)1112014	IVIAUIX-IVISH						Weight: 149 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 *Except* 4-6:2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 *Except* 2-12:2x4 SP No.1

WERS 2x4 SP No.3 WEDGE Left: 2x4 SP No.3

Right: 2x4 SP No.3 BRACING

TOP CHORD

FORCES

Structural wood sheathing directly applied or

2-3-11 oc purlins, except 2-0-0 oc purlins (2-11-12 max.): 4-6.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

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

Max Horiz 2=-49 (LC 13)

Max Grav 2=1296 (LC 44), 8=1296 (LC 44) (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/32, 2-3=-3564/340, 3-4=-3480/254,

4-5=-2130/242, 5-6=-2148/246,

6-7=-1959/206, 7-8=-2119/216, 8-9=0/32

BOT CHORD 2-12=-250/3186, 11-12=-116/2492,

10-11=-66/1633, 8-10=-132/1817

3-12=-217/265, 4-12=-14/1631, 4-11=-587/14, 5-11=-619/127, 6-11=-45/641,

6-10=0/372, 7-10=-296/106

NOTES

WEBS

1) Unbalanced roof live loads have been considered for this design.

- 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) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 8-11-8, Exterior(2R) 8-11-8 to 13-2-7, Interior (1) 13-2-7 to 20-11-8, Exterior(2R) 20-11-8 to 24-11-3, Interior (1) 24-11-3 to 30-9-1 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=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- 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 non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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.
- Bearings are assumed to be: Joint 2 SP No.1, Joint 8
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



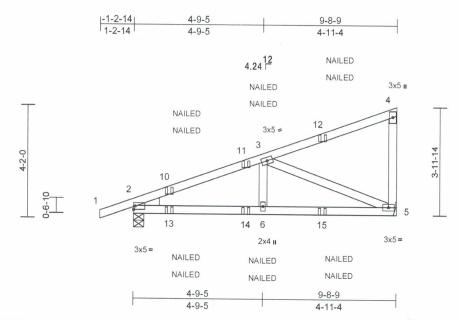
 Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE Mit-7473 rev. 1/2/2023 BEFORE USE ARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design 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/TP1 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 Coats-Charleston 1270-Roof-Charleston 1270 VFR 171239846 24120078-01 HJ₁₀ Diagonal Hip Girder Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37:03 ID:9sHlonQ9oke9k1xLU3sMA8y9Zwm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:42.3

Loading (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 13.9/20.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 1.15 NO IRC2021/TPI2014	CSI TC BC WB Matrix-MSH		DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.06 0.01	(loc) 5-6 5-6 5-6	l/defl >999 >999 n/a	20000000	PLATES MT20 Weight: 48 lb	GRIP 244/190 FT = 20%
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LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 **WEBS** 2x4 SP No.3 WEDGE Left: 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) 2=0-4-9, 5= Mechanical

Max Horiz 2=114 (LC 10)

Max Uplift 2=-41 (LC 7), 5=-33 (LC 8)

Max Grav 2=498 (LC 2), 5=566 (LC 18) **FORCES** (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/30, 2-3=-809/23, 3-4=-133/34.

4-5=-200/47

BOT CHORD 2-6=-101/732, 5-6=-66/732

WEBS 3-6=0/143, 3-5=-752/58

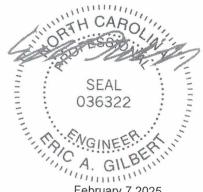
NOTES

- 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); cantilever left and right exposed; end vertical left and right exposed; 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); 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.
- 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 non-concurrent with 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 2 and 33 lb uplift at joint 5.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (lb/ft)
 - Vert: 1-4=-48, 5-7=-20
 - Concentrated Loads (lb)
 - Vert: 11=-41 (F=-21, B=-21), 12=-191 (F=-95, B=-95), 13=2 (F=1, B=1), 14=-14 (F=-7, B=-7),
 - 15=-75 (F=-38, B=-38)



February 7,2025

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



Edenton NC 27932

 Job
 Truss
 Truss Type
 Qty
 Ply
 Coats-Charleston 1270-Roof-Charleston 1270 VFR

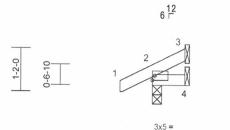
 24120078-01
 J1
 Jack-Open
 8
 1
 Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37:03 ID:_I7bU0IFOMGjwKcDLF9nEpy9Zwx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

0-10-8 0-10-7



0-10-7

Scale = 1:30.8

Loading (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 13.9/20.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	CSI TC BC WB Matrix-MP		DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 7 7 3	I/defl >999 >999 n/a	10000000		GRIP 244/190 FT = 20%	
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LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

0-10-7 oc purlins.

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

REACTIONS (size)

(size) 2=0-3-0, 3= Mechanical, 4= Mechanical

Max Horiz 2=19 (LC 15)

Max Uplift 2=-5 (LC 15), 3=-8 (LC 21), 4=-6

(LC 21)

Max Grav 2=117 (LC 22), 3=11 (LC 22), 4=6

(LC 19)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/28, 2-3=-44/48

BOT CHORD 2-4=-28/7

NOTES

FORCES

- 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) 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=1.33
- 2) 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); 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.
- 4) 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 non-concurrent with 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be: , Joint 2 SP No.2 .
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 2, 6 lb uplift at joint 4 and 8 lb uplift at joint 3.

LOAD CASE(S) Standard

SEAL 036322

February 7,2025

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

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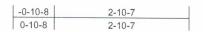
818 Soundside Road Edenton, NC 27932
 Job
 Truss
 Truss Type
 Qty
 Ply
 Coats-Charleston 1270-Roof-Charleston 1270 VFR

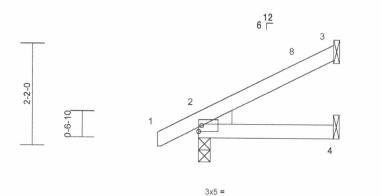
 24120078-01
 J3
 Jack-Open
 8
 1
 Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37:03 ID:2M?r3KG?sk0?g1SrEq7J9Oy9Zwz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:24.4

2-10-7	
2 10 7	

Loading (psf) Spacing 2-0-0 CSI TCLL (roof) 20.0 Plate Grip DOL 1.15 TC Snow (Pf/Pg) 13.9/20.0 Lumber DOL 1.15 BC TCDL 10.0 Rep Stress Incr YES WB BCL 0.0* Code IRC2021/TPI2014 Matrix-MP	0.12 Vert(LL) 0.08 Vert(CT) 0.00 Horz(CT	(LL) 0.00 (CT) -0.01	(loc) 4-7 4-7 3	l/defl >999 >999 n/a		PLATES MT20	GRIP 244/190 ET = 20%
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LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEDGE Left: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-10-7 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 2=0-3-0, 3= Mechanical, 4=

Mechanical Max Horiz 2=44 (LC 15)

Max Uplift 3=-23 (LC 15)

Max Grav 2=199 (LC 22), 3=86 (LC 22), 4=34

(LC 22)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/28, 2-3=-96/66

BOT CHORD 2-4=-123/53

NOTES

FORCES

- 1) 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) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 2-9-11 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=1.33
- 2) 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); 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.
- 4) 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 non-concurrent with 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be: , Joint 2 SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint

LOAD CASE(S) Standard

SEAL 036322 Rebruary 7,2025

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/TPI1 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)

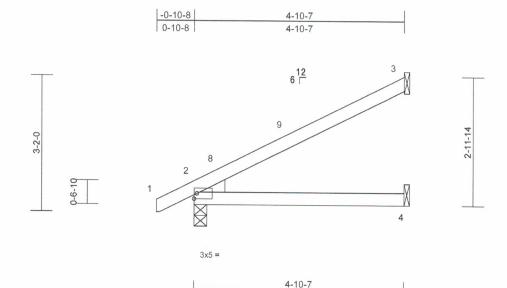


818 Soundside Road Edenton, NC 27932 Job Truss Truss Type Qty Ply Coats-Charleston 1270-Roof-Charleston 1270 VFR 171239849 24120078-01 Jack-Open 8 Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37:03 ID: dnKiRJE7ZpdRpZjGYiacXmy9Zx0-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

Page: 1



Scale = 1:26.6

Snow (Pf/Pg) 13.9/20.0 Lumber I	Grip DOL 1.15 er DOL 1.15 tress Incr YES	BC 0.29	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.03 -0.06 0.01	(loc) 4-7 4-7 2	l/defl >999 >951 n/a		PLATES MT20 Weight: 18 lb	GRIP 244/190 FT = 20%
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LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEDGE Left: 2x4 SP No.3

BRACING

Structural wood sheathing directly applied or TOP CHORD 4-10-7 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size)

2=0-3-8, 3= Mechanical, 4=

Mechanical Max Horiz 2=70 (LC 15) Max Uplift 3=-39 (LC 15)

Max Grav 2=272 (LC 22), 3=163 (LC 22),

4=66 (LC 22)

Tension TOP CHORD

(lb) - Maximum Compression/Maximum

1-2=0/28, 2-3=-192/130 **BOT CHORD** 2-4=-293/159

NOTES

FORCES

- 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) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 4-9-11 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=1.33
- 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); 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
- 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 non-concurrent with 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 SP No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint

LOAD CASE(S) Standard



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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
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and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

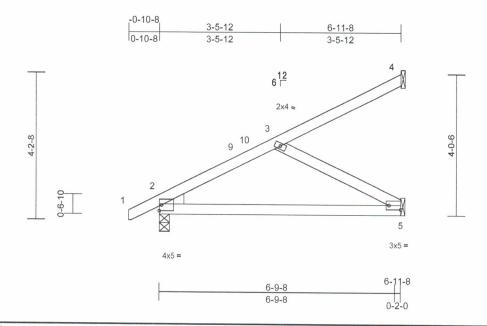


Edenton NC 27932

Job	Truss	Truss Type	Qty	Ply	Coats-Charleston 1270-Roof-Charleston 1270 VFR
24120078-01	J7	Jack-Open	15	1	Job Reference (optional)

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37:03 ID:wPmnTWXAvBf1hFZtyk?FVqy9Zwe-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33

Plate Offsets (X, Y): [5:Edge,0-1-8]

Loading (psf) Spacing TCLL (roof) 20.0 Plate Grip I Snow (Pf/Pg) 13.9/20.0 Lumber DC TCDL 10.0 Rep Stress BCLL 0.0* Code BCDL 10.0	L 1.15	BC 0.	DEFL 21 Vert(LL) 32 Vert(CT) 12 Horz(CT)	in 0.01 -0.08 0.00	(loc) 5-8 5-8 2	l/defl >999 >999 n/a		PLATES MT20 Weight: 30 lb	GRIP 244/190 FT = 20%	
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LUMBER

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

WEDGE Left: 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) 2=0-3-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=97 (LC 15)

Max Uplift 4=-32 (LC 15)

Max Grav 2=331 (LC 2), 4=110 (LC 22),

5=210 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/28, 2-3=-345/70, 3-4=-74/37 BOT CHORD 2-5=-256/309

WEBS 3-5=-349/225

NOTES

- 1) 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) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 6-10-12 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 DOL=1.33
- 2) 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); 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.

- 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 non-concurrent with 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be: , Joint 2 SP No.2 .
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint

LOAD CASE(S) Standard



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

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818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Coats-Charleston 1270-Roof-Charleston 1270 VFR 171239851 24120078-01 Jack-Open 3 Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Dec 5 2024 Print: 8.730 S Dec 5 2024 MiTek Industries, Inc. Wed Feb 05 13:37:04

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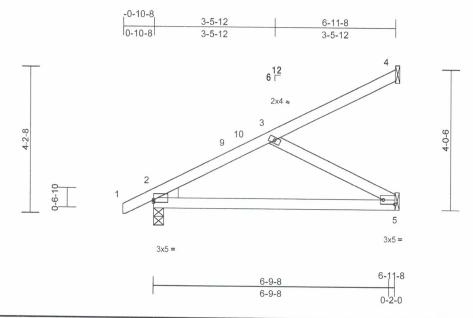


Plate Offsets (X, Y)	[2:Edge,0-0-14],	[5:Edge,0-1-8]
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Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0 *	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2021/TPI2014	CSI TC BC WB Matrix-MP	0.38	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.01 -0.07 0.01	(loc) 5-8 5-8 5	l/defl >999 >999 n/a		PLATES MT20 Weight: 30 lb	GRIP 244/190	
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LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3 WEDGE Left: 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)

2=0-3-8, 4= Mechanical, 5= Mechanical

Max Horiz 2=97 (LC 15)

Max Grav 2=416 (LC 2), 4=190 (LC 22),

5=290 (LC 22)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/28, 2-3=-524/0, 3-4=-121/64 2-5=-230/455

BOT CHORD WEBS

3-5=-513/97

NOTES

- 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) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 6-10-12 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 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); 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

- 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 non-concurrent with 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 SP No.2
- Refer to girder(s) for truss to truss connections.
- Load case(s) 1, 2 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

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

Uniform Loads (lb/ft)

Vert: 1-9=-48, 4-9=-99, 5-6=-20

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

Uniform Loads (lb/ft)

Vert: 1-9=-60, 4-9=-112, 5-6=-20



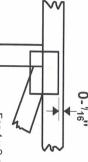
February 7,2025

Symbols

PLATE LOCATION AND ORIENTATION



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



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

ω

0

ഗ

3

connector plates required direction of slots in This symbol indicates the

* Plate location details available in MiTek software or upon request

PLATE SIZE

4 × 4

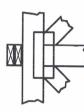
the length parallel to slots to slots. Second dimension is width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

Industry Standards:

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

DSB-22:

ANSI/TPI1:

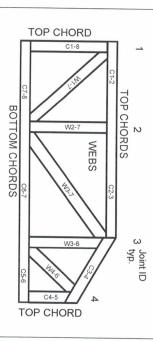
Plate Connected Wood Trusses

Numbering System

6-4-8

dimensions shown in ft-in-sixteenths

(Drawings not to scale)



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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- stack materials on inadequately braced trusses. Never exceed the design loading shown and never
- all other interested parties. designer, erection supervisor, property owner and Provide copies of this truss design to the building
- 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.
- 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
- 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
- or less, if no ceiling is installed, unless otherwise noted Bottom chords require lateral bracing at 10 ft. spacing
- 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
- 18. Use of green or treated lumber may pose unacceptable project engineer before use environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone
- . Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.