

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 21040035-A 1100 Carolina Way-Roof-BB-2250

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: I45815316 thru I45815364

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



Johnson, Andrew

April 26,2021

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

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|-----------------------|-----|-----|--------------------------------|-----------|
| 21040035-A | A01 | Piggyback Base Girder | 1 | 1 | Job Reference (optional) | l45815316 |

Scale = 1:83

Loading



| TCLL (roof) | | 20.0 | Plate Grip DOL | 1.15 | TC | 0.44 | Vert(LL) | -0.01 | 22-23 | 3 >999 | 240 | MT20 | 244/190 | |
|-------------|------------|-----------------|-------------------------|-----------------|-----------------------------|------------------------|---------------|--------|--------|-------------|-----------|--------------------|------------------|-------------|
| Snow (Pf) | | 20.0 | Lumber DOL | 1.15 | BC | 0.28 | Vert(CT) | -0.02 | 22-23 | 3 >999 | 180 | | | |
| TCDL | | 10.0 | Rep Stress Incr | NO | WB | 0.42 | Horz(CT) | 0.01 | 20 | 0 n/a | n/a | | | |
| BCLL | | 0.0* | Code | IRC2015/TPI2014 | Matrix-MSH | | . , | | | | | | | |
| BCDL | | 10.0 | | | | | | | | | | Weight: 356 lb | FT = 20% | |
| | | | | TOP CHORD | 1-52=-111/80. 52 | 2-53=-76/8 | 86. 2-53=-32/ | 115. | 1) U | Inbalanced | d roof li | ive loads have b | een consider | ed for |
| TOP CHORD | 2x4 SP N | 02 | | | 2-54=-124/159.3 | 3-54=-11/2 | 213. 3-55=0/1 | 72. | , th | nis desian. | | | | |
| BOT CHORD | 2x4 SP N | 0.2 | | | 55-56=0/172.56 | -57=0/172 | . 4-57=0/172 | | 2) W | Vind: ASCI | E 7-10 | : Vult=130mph (| 3-second aus | st) |
| WEBS | 2x4 SP N | o.3 *Excen | t* | | 4-5=0/172, 5-6=0 | 0/172, 6-7 | =0/172, 7-8=0 | 0/172, | ν ν | /asd=103m | nph: TO | CDL=6.0psf: BCI | DL=6.0psf; h | |
| | 34-3.33-3 | .4-33.31-8. | 7-32:2x4 SP No.2 | | 8-9=0/211, 9-10= | =-5/184, 1 | 0-11=-56/130 |), | С | at. II; Exp | B; End | closed; MWFRS | (envelope) e | xterior |
| OTHERS | 2x4 SP N | ο 3 | | | 11-12=-11/142, 1 | 12-13=-40 | /105, | | Z | one; cantil | ever le | oft and right expo | sed; end ver | rtical left |
| | | 0.0 | | | 13-14=-95/70, 14 | 4-15=-25/6 | 9, 15-58=-34 | 1/63, | а | nd right ex | posed | ; Lumber DOL=1 | 1.60 plate grip | C |
| | Structura | | athing directly applied | d or | 16-58=-112/57, <i>1</i> | 16-17=-10 | 1/79, | | D | OL=1.60 | | | | |
| | 6-0-0 oc r | nurling ev | cent end verticals an | u oi ud | 17-59=-540/148, | 18-59=-5 | 40/148, | | 3) 1 | Truss desig | gned fo | or wind loads in t | he plane of the | he truss |
| | 2-0-0 00 1 | ourling $(6-0)$ | -0 may). 3-8 17-18 | iu - | 18-19=-578/140, | 19-20=-6 | 04/121, | | 0 | nly. For st | tuds ex | xposed to wind (r | normal to the | face), |
| | Pigid ceil | ing directly | applied or 6-0-0 oc | | 20-21=0/36, 1-36 | 6=-185/11 | 6 | | S | ee Standa | rd Indu | ustry Gable End | Details as ap | plicable, |
| | bracing | ing uncoury | | BOT CHORD | 35-36=-180/319, | 34-35=-1 | 22/267, | | 0 | r consult q | ualifie | d building desigr | ier as per AN | SI/TPI 1. |
| WEBS | 1 Row at | midnt | 2.34 3.34 3.33 8.3 | 1 | 34-60=-101/292, | 33-60=-1 | 01/292, | | 4) T | CLL: ASC | E 7-10 |); Pr=20.0 psf (ro | of live load: L | umber |
| | i non ai | mapt | 9-45 | , | 32-33=-115/282, | 31-32=-1 | 15/282, | | D | OL=1.15 | Plate D | OL=1.15); Pf=2 | 0.0 psf (flat ro | oof snow: |
| JOINTS | 1 Brace a | at Jt(s): 37. | | | 30-31=-55/227, 2 | 29-30=-55 | /227, | | Ľ | umber DO | L=1.15 | 5 Plate DOL=1.1 | 5); Category | II; Exp B; |
| | 38, 44, 46 | 6 | | | 28-29=-55/227, 2 | 27-28=-29 | /146, | | - | ully Exp.; | Ct=1.1 | 0 | | |
| REACTIONS | (size) | 20=0-3-8 | 24=27-9-0 25=27-9 | -0 | 26-27=-110/76, 2 | 25-26=-11 | U/76, | -/00 | 5) U | Inbalanced | d snow | loads have beer | n considered | for this |
| | (0.20) | 26=27-9-0 | 27=27-9-0 $28=27-9$ | 9-0 | 24-20=-00/00, 24 | +-01=-05/0 | 08, 23-01=-00 | 0/08, | ۵ ۲ | lesign. | | | | |
| | | 31=27-9-0 |), 32=27-9-0, 33=27- | 9-0. WERS | 22-23=-10/330, 2 | 21-22=-70 | 11 2 24- 17 | 74/5 | 0) 1 | nis truss n | as bee | an designed for g | Jreater of min | |
| | | 34=27-9-0 |), 35=27-9-0, 36=27- | 9-0 | 2 - 33 = - 27 9/70, 2- | 2 27- 265 | 41, 3-34=-17 | 4/3, | IC | | | 1.00 times hat h | ooi load oi 20 | J.0 psi on |
| | Max Horiz | 36=-361 (| LC 10) | | <i>1</i> -37-338/101 | 2-31=-303 2-31=-200 | /16 | | 7 0 | vernangs i | | draine and tol tol | ler live loads. | va aliva av |
| | Max Uplift | 20=-135 (| LC 9), 25=-125 (LC 9 | 9). | 31-45=-210/151 | 44-451 | 60/138 | | /) P | rovide ade | equate | drainage to prev | /envwater po | naing. |
| | | 26=-69 (L | C 13), 27=-6 (LC 13) | , | 11-44=-149/125 | 11-28=-2 | 17/57 | | | | | IN THUR | ARO!" | |
| | | 28=-116 (| LC 65), 31=-111 (LC | 65), | 28-43=-115/147. | 42-43=-1 | 15/149. | | | \wedge | 1 | A Fai | 1 | 11 |
| | | 32=-18 (L | C 9), 33=-106 (LC 9) | , | 14-42=-83/128, | 14-27=-22 | 2/11, | | | | TA | V. SEE | Dirk | rine |
| | | 34=-75 (L | C 12), 35=-53 (LC 64 | 4), | 27-41=-11/145, 4 | 40-41=-10 | /149, | | | | | | 7. | |
| | | 36=-107 (| LC 62) | | 17-40=-10/139, ² | 17-25=-50 | 1/149, | | | | | .4 | | - |
| | Max Grav | 20=535 (L | _C 47), 24=183 (LC 4 | 6), | 17-39=-160/674, | 23-39=-1 | 56/661, | | | | 17 - F | SF4 | Ω (1 | = |
| | | 25=420 (L | _C 39), 26=396 (LC 3 | 9), | 18-23=-71/54, 1- | 35=-163/1 | 36, | | | - | | ULP | | = |
| | | 27=260 (L | _C 39), 28=368 (LC 3 | 9), | 32-38=-155/30, 7 | 7-38=-126 | /18, 37-47=0/ | /0, | | | | 458 | 44 | |
| | | 31=439 (L | LC 39), 32=241 (LC 5 | ю), | 38-47=0/0, 37-48 | 3=-19/5, 4 | 6-48=-1/3, | | | - | S 2 | • | | - E |
| | | 33=536 (L | LC 38), 34=414 (LC 5 | 01 <i>)</i> , | 7-46=-7/10, 19-2 | 2=-78/42, | 24-39=-10/3 | 1, | | | - | 30 au | | 1.5 |
| | | 35=336 (L | LC 51), 36=213 (LC 5 | 3) | 16-40=-177/102, | 26-40=-2 | 09/91, | - | | | 1.7 | 1. SNOW | EFR. O | 2.2 |
| FORCES | (lb) - Max | imum Com | pression/Maximum | | 15-41=-27/16, 13 | 3-42=-42/2 | 27, 12-43=-4/ | 5, | | | 1 | ON GIN | F.F. G | 5 |
| | Tension | | | | 10-44=-15/14, 9- | 45=-58/16 | o, 6-46=-51/2 | 5, | | | 1 | TEM | OHN | N |
| | | | | | 40-47=-39/17, 5- | 48=-24/8 | | | | | | TIN J | Unin | |
| | | | | NOTES | | | | | | | | 11111 | ALL | |

April 26,2021



Continued on page 2

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|-----------------------|-----|-----|--------------------------------|-----------|
| 21040035-A | A01 | Piggyback Base Girder | 1 | 1 | Job Reference (optional) | 145815316 |

8) All plates are 2x4 MT20 unless otherwise indicated.

- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
 11) * 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. 12) N/A

12) N/A

- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 205 lb down and 41 lb up at 35-2-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (lb/ft)
 - Vert: 1-3=-60, 3-8=-60, 8-17=-60, 17-18=-60, 18-21=-60, 36-49=-20

Concentrated Loads (lb)

Vert: 18=-47 (B), 24=-23 (B), 26=-131 (B), 59=-43 (B), 61=-205 (B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:27 ID:INrpEw9gxzjNdX?LUorAzuzNyJp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|----------------|-----|-----|--------------------------------|-----------|
| 21040035-A | A02 | Piggyback Base | 1 | 1 | Job Reference (optional) | 145815317 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:32 ID:llyoqh9?t_PmmTuwaEZJRPzNyab-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Plate Offsets (X, Y): [2:0-1-3,0-0-5], [3:0-5-4,0-2-8], [5:0-4-4,0-2-0], [7:0-4-4,0-2-0], [9:0-5-4,0-1-8]

| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2015/T | PI2014 | CSI TC BC WB Matrix-MSH | 0.94 0.94 0.85 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.25 -0.54 0.07 | (lo 22-2 22-2 | c) l/defl 23 >999 23 >831 15 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 338 lb | GRIP 244/190 FT = 20% | |
|--|--|---|---|--|--|--|---|---|--|---|---|--|--|--|
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS | 2x4 SP No.2 *Excep 2x6 SP No.2 *Excep 2x4 SP No.3 *Excep 5-26,7-19,6-26,6-19: Structural wood sheat except 2-0-0 oc purlins (4-6 Rigid ceiling directly bracing. Except: 6-0-0 oc bracing: 21 1 Row at midpt (size) 2=0-5-8, 1 Max Horiz 2=214 (LC Max Uplift 2=-56 (LC Max Grav 2=1699 (L) 15=2727 (L) | t* 1-3:2x4 SP No.1 t* 25-21:2x4 SP No.3 t* :2x4 SP No.2 athing directly applied -12 max.): 5-7, 9-11. applied or 2-2-0 oc -25 3-28, 4-26, 6-21 12=0-3-8, 15=0-5-8 C 13) C 21), 12=-222 (LC 58 C 21), 12=-210 (LC 5 (LC 43) pression/Maximum | BOT 4,) 3), NOT | CHORD 2 4 1 1 1 2 2 2 3 3 5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 | 2-29=-81/3834, 28-2 7-28=0/2204, 26-2 9-50=0/1473, 50-5 10-24=0/1473, 20-5 9-53=0/1473, 20-5 9-53=0/1473, 18-1 6-17=-344/91, 15 4-15=-1176/83, 12 5-54=-34/0, 54-55= 12-23=-34/0, 54-55= 12-23=-34/0, 24-55= 12-23=-34/0, 24-55= 12-23=-34/0, 20-25 5-26=-100/384, 6-25 5-26=-100/384, 6-25 5-26=-100/384, 6-25 5-26=-100/384, 6-25 5-26=-100/384, 6-25 5-26=-100/384, 6-25 5-26=-100/384, 6-25 5-26=-100/384, 6-25 5-26=-100/384, 6-25 5-26=-100/384, 6-25 5- | 29=-78/ 7=0/22 1=0/14 2=0/14 2=0/14 9=0/14 16=-117 -14=-89 34/0, 34/0, 1930/12 19=-110 0/1750, 5=0/117 25=-69/ 21=-617 2=-138/ | 3837, 04, 26-49=0/' 73, 24-51=0/' 73, 52-53=0/' 15, 17-18=0/' 76,83, 19/62, 23-55=-34/0, 56-57=-34/0, 25, 4-28=-77/' 0/393, 9-16=-1980/' 73, 7-19=0/92 432, 7/108, 0, 10-15=-21 534 | 1473, 1473, 1473, 1473, 1415, 810, 115, 28, 75/0, | 5) 6) 7) 8) 9) 10) 11) | This truss oad of 12. overhangs 200.0lb AC 21-3-11 fra apart. Provide ad This truss chord live l ⁴ This truss chord live l ⁴ This truss on the bott 3-06-00 tal chord and One RT7A rruss to be This conne ateral forc This truss internation 2002 10.2 | has bee 0 psf or non-co c unit loo om left e equate has bee oad nou s has be oom cho I by 2-0 any oth MiTek aring we cotion is es. is desig al Resig | en designed for g 1.00 times flat ro ncurrent with oth ad placed on the end, supported at drainage to prev- en designed for a nconcurrent with sen designed for rd in all areas wh 0-00 wide will fit er members, with connectors recor alls due to UPLIF for uplif only an- ned in accordance dential Code sect | eater of min roof live of load of 20.0 psf on er live loads. bottom chord, two points, 5-0-0 ent water ponding. 10.0 psf bottom any other live loads. a live load of 20.0psf ere a rectangle between the bottom BCDL = 10.0psf. nmended to connect T at jt(s) 2 and 12. d does not consider ewith the 2015 ions R502.11.1 and t ADIS/CPL1 | |
| TOP CHORD | Tension 1-2=0/41, 2-36=-407 3-37=-4041/70, 3-38 38-39=-2757/69, 4-3 4-40=-2370/84, 40-4 5-41=-2221/121, 5-4 6-42=-1568/156, 6-4 7-43=-1316/153, 7-4 44-45=-1858/91, 8-4 8-46=-1669/61, 46-4 9-47=-1987/35, 9-10 11-48=0/1005, 12-48 | '9/49, 36-37=-4056/5 =-2872/59, 19=-2692/82, 11=-2223/103, 12=-1568/156, 13=-1316/153, 14=-1851/110, 15=-2021/70, 17=-1810/39, 0=-24/241, 10-11=0/83 8=0/959, 12-13=0/39 | 7) (5, 2) (2 2 3 3 2 3 3 7 5 3, [4] 4) (4) (5, 2) (1 5, 2) (2 5, 2) (2) (2) (2) (2) (2) (2) (2) (| Vind: ASCE /asd=103mp | 7-10; Vult=130mph h; TCDL=6.0psf; B ; Enclosed; MWFR C Exterior (2) -1-4-C 6, Exterior (2) 13 7-2, Exterior (2) 13 7-2, Exterior (2) 13 7-2, Exterior (2) 13 7-2, Exterior (2) 14- cand right exposed ;C-C for members shown; Lumber DC 7-10; Pr=20.0 psf (ate DOL=1.15); Pf= =1.15 Plate DOL=1 t=1.10 show loads have be | (3-sec CDL=6 S (envolution) to 3-0- to 2- 7-2 to 2- 7-2 | ond gust) .0psf; h=25ft; elope) exterio -6, Interior (1) 9-3-0, Interior 44-11-8 zone ertical left an ces & MWFR 0 plate grip e load: Lumb sf (flat roof sr ategory II; Ex sidered for th | r (1) ; d S er now: p B; nis | | | | SEA 4584 | ROL HA L H4 DHNS HNS HNS HNS HNS HNS HNS HNS HNS HNS | |

Continued on page 2 Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2/2/2/ BE-VRE 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



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | | |
|---|-------|----------------|--|-----|--------------------------------|-----------|--|
| 21040035-A | A02 | Piggyback Base | 1 | 1 | Job Reference (optional) | 145815317 | |
| Carter Components (Sanford), Sanford, NC - 27332, | | | Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:32 | | | | |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:32 ID:llyoqh9?t_PmmTuwaEZJRPzNyab-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

12) 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



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|----------------|-----|-----|--------------------------------|-----------|
| 21040035-A | A03 | Piggyback Base | 5 | 1 | Job Reference (optional) | 145815318 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:33 ID:BubmWr4ghxPoIRT6hu0l8rzNyeZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|---|---|--|---------------------------|--|---|---|--|--|---|--|--|--|--|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | | TC | 0.94 | Vert(LL) | -0.24 | 19-20 | >999 | 240 | MT20 | 244/190 | |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | | BC | 0.94 | Vert(CT) | -0.53 | 19-20 | >840 | 180 | | | |
| TCDL | 10.0 | Rep Stress Incr | YES | | WB | 0.93 | Horz(CT) | 0.09 | 13 | n/a | n/a | | | |
| BCLL | 0.0* | Code | IRC2015 | /TPI2014 | Matrix-MSH | | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | | Weight: 334 I | o FT = 20% | 6 |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD | 2x4 SP No.2 *Excep 2x6 SP No.2 *Excep 2x4 SP No.3 *Excep 5-23,7-16,6-23,6-16 Structural wood she except 2-0-0 oc purlins (4-6 Rigid ceiling directly bracing, Except: 2-2-0 oc bracing: 23 | ot* 1-3:2x4 SP No.1 ot* 22-18:2x4 SP No.3 ot* :2x4 SP No.2 eathing directly applied S-9 max.): 5-7. y applied or 10-0-0 oc 3-25 | BC I, WE | T CHORD | 2-26=-73/3797, 2 24-25=0/2222, 2 47-48=0/1490, 4 17-21=0/1490, 1 16-51=0/1490, 1 16-53=0/1428, 1 11-13=-928/96, 2 20-55=-33/0, 19- 56-57=-33/0, 18- 3-26=0/170, 3-25 4-23=-1037/315, 8-14=-1255/0, 9- 0-13=-527/158 | 25-26=-70, 3-24=0/22 8-49=0/14 7-50=0/14 6-52=0/14 4-53=0/14 22-54=-33, 20=-33/0, 57=-33/0 5=-1929/11 8-16=-13; 14=0/102(| (3801, 22, 23-47=0/ 90, 21-49=0/ 90, 50-51=0/ 28, 15-52=0/ 28, 13-14=0/ (0, 54-55=-33 19-56=-33(0, 22, 4-25=-77/ 9/311, 5, 9-13=-275; 186 7-16=0/0 | 1490, 1490, 1490, 1428, 701, %0, %09, %09, 3/76, | 5) Thi loa ove 6) 200 21- apa 7) Prc 8) Thi chc 9) * Ti on 3-0 | s truss h d of 12.C rhangs i).0lb AC 3-11 froi art. wide ade s truss h ord live lo his truss the botto 6-00 tall | as bee) psf or non-cc unit lo m left e as bee bad no has be bom chc by 2-0 | en designed for r 1.00 times flat oncurrent with o ad placed on th end, supported drainage to pre en designed for nconcurrent wit een designed fo ord in all areas v 00-00 wide will f | greater of mi roof load of 2 her live load e bottom chc at two points, went water p a 10.0 psf bc h any other li r a live load where a recta it between th | n roof live 20.0 psf on s. yrd, , 5-0-0 onding. ottom vive loads. of 20.0psf ingle e bottom |
| WEBS REACTIONS | 6-0-0 oc bracing: 11 6-0-0 oc bracing: 18 1 Row at midpt (size) 2=0-5-8, Max Horiz 2=195 (LC Max Uplift 2=-54 (LC Max Grav 2=1697 (L 13=2494 | I-13. I-22 I-25, 4-23, 8-14, 6-1. I1=0-3-8, 13=0-5-8 C 14) C 14), 11=-288 (LC 55 LC 21), 11=200 (LC 4 (LC 3) | 8 NC) 1) 9), 2) | DTES Unbalanced this design. Wind: ASCI Vasd=103m | 10-13=-522/156, 22-23=-99/387, 6 6-18=-575/131, ⁻ 20-21=-135/0, 17 I roof live loads h E 7-10; Vult=130r | 5-23=0/1 6-22=-69/4 16-18=-62: 7-19=-139, ave been (ave been (nph (3-sec f BCDI =6 | 186, 7-16=0/\$ 35, 2/100, '0 considered fo cond gust) | 966, or | chc 10) On trus Thi late 11) Thi Inte R8 | ord and a e RT7A ss to bea s connect and force s truss is ernationa 02.10.2 a | any oth MiTek aring w ction is es. s desig al Resig and ref | er members, w connectors rec alls due to UPL s for uplift only a uned in accorda dential Code se ferenced standa | th BCDL = 1 ommended to IFT at jt(s) 2 nd does not nce with the 2 ctions R502. ard ANSI/TPI | 0.0psf. 5 connect and 11. consider 2015 11.1 and 1. |
| FORCES | (lb) - Maximum Com Tension 1-2=0/41, 2-33=-404 3-34=-4002/58, 3-35 35-36=-2754/59, 4-3 4-37=-2384/74, 37-3 5-38=-2235/111, 5-3 6-39=-1577/149, 6-4 7-40=-1330/143, 7-4 41-42=-1887/91, 8-4 8-43=-843/82, 43-44 44-45=-910/67, 9-45 9-10=-83/1148, 10-4 11-46=-39/978, 11-1 | hpression/Maximum 46/36, 33-34=-4016/4: 5=-2850/49, 36=-2701/73, 38=-2237/93, 39=-1577/149, 40=-1330/143, 41=-1883/110, 42=-2019/75, 4=-857/77, 5=-1006/59, 46=-26/1004, 12=0/41 | 2, 3) 4) | Cat. II; Exp zone and C 3-0-6 to 13- 29-3-0 to 40 cantilever le right expose for reactions DOL=1.60 TCLL: ASC DOL=1.15 fL Umber DO Fully Exp.; (Unbalanced design. | B: Enclosed; MW -C Exterior (2) -1- 4-6, Exterior (2) 1 -7-2, Exterior (2) 1 ft and right expose d;C-C for member s shown; Lumber E 7-10; Pr=20.0 p Plate DOL=1.15); L=1.15 Plate DOL L=1.15 Plate DOL Ct=1.10 | , DSL-2, FRS (env. 4-0 to 3-0 3-4-6 to 2 40-7-2 to sed ; end v ers and foi DOL=1.6(psf (roof liv Pf=20.0 p L=1.15); C e been cor | elope) exteric -6, Interior (1 9-3-0, Interio 44-11-8 zone vertical left an cces & MWFF 0 plate grip e load: Lumb sf (flat roof sr ategory II; Ex sidered for th | , r (1) ; id SS eer now: cp B; his | | | A A A A A A A A A A A A A A A A A A A | SE SE SE SE SE SE SE SE SE SE SE SE SE S | APOLY AL 44 VEEER.SS | Anna Anna |

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems. See **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY A MITEK Affiliate B18 Soundside Road Edenton, NC 27932

April 26,2021

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|---------------------------------|---------------------|--------------------|------------------|--------------|---|-----------|
| 21040035-A | A03 | Piggyback Base | 5 | 1 | Job Reference (optional) | 145815318 |
| Carter Components (Sanford), Sa | anford, NC - 27332, | Run: 8.5 S 0 Apr 2 | 0 2021 Print: 8. | 500 S Apr 20 |) 2021 MiTek Industries, Inc. Sat Apr 24 10:49:33 | Page: 2 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:33 ID: BubmWr4ghxPoIRT6hu0l8rzNyeZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

12) 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



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|----------------|-----|-----|--------------------------------|-----------|
| 21040035-A | A04 | Piggyback Base | 1 | 1 | Job Reference (optional) | 145815319 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:34 ID:uyVzEGNnnCSoDbN5oAMDL?zNyXk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



April 26,2021

Page: 1



| Job | Truss | Truss Type | | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|---------------------------------|---------------------|----------------|------------------------|----------------|--------------|---|-----------|
| 21040035-A | A04 | Piggyback Base | | 1 | 1 | Job Reference (optional) | 145815319 |
| Carter Components (Sanford), Sa | anford, NC - 27332, | F | Run: 8.5 S 0 Apr 20 20 | 021 Print: 8.5 | 500 S Apr 20 | 2021 MiTek Industries, Inc. Sat Apr 24 10:49:34 | Page: 2 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:34 ID:uyVzEGNnnCSoDbN5oAMDL?zNyXk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

12) 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



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|----------------|-----|-----|--------------------------------|-----------|
| 21040035-A | A04A | Piggyback Base | 1 | 1 | Job Reference (optional) | 145815320 |

BCDL

LUMBER

WEBS

BRACING

TOP CHORD

BOT CHORD

REACTIONS (size)

WEBS

FORCES

TOP CHORD

TOP CHORD

BOT CHORD

2.0E

No.2

except

bracing, Except:

1 Row at midpt

Max Horiz

Max Uplift

Max Grav

Tension

2-2-0 oc bracing: 14-16

6-0-0 oc bracing: 11-13.

20 = 0.5 - 8

3-29=-494/217, 3-4=-295/250,

4-30=-974/187, 30-31=-868/193

5-31=-827/207, 5-32=-1097/268,

32-33=-952/285, 6-33=-946/305,

6-34=-798/293, 34-35=-798/293,

7-35=-798/293, 7-36=-1050/309,

8-38=-918/180, 38-39=-925/176,

9-10=-106/415, 10-41=-42/298, 11-41=-123/264, 11-12=0/41

39-40=-984/165, 9-40=-1081/158,

36-37=-1082/291, 8-37=-1186/274,

2=195 (LC 14)

(lb) - Maximum Compression/Maximum

1-2=0/41, 2-28=-600/194, 28-29=-515/202,

2x4 SP No.2

10.0

2x4 SP No.2 *Except* 6-7:2x4 SP 2400F

2x4 SP No.3 *Except* 17-6,16-6,16-7:2x4 SP

Structural wood sheathing directly applied,

Rigid ceiling directly applied or 10-0-0 oc

5-17

2=0-3-8, 11=0-3-8, 13=0-5-8,

2=-172 (LC 10), 11=-100 (LC 11),

2=673 (LC 45), 11=390 (LC 49),

13=-203 (LC 15), 20=-145 (LC 14)

13=1606 (LC 22), 20=1525 (LC 41)

6-17, 6-16, 8-16, 8-14,

2-0-0 oc purlins (6-0-0 max.): 6-7.

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:36 ID:fa5iBFHStZ10LHBiF7j2R0zNyWY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

44-11-8 7-0-10 8-2-12 17-8-11 29-10-11 34-10-11 43-7-8 12-4-11 24-10-11 39-1-6 1-2-2 5-4-1 5-0-0 7-0-10 4-1-15 7-1-15 5-0-0 4-2-11 4-6-2 1-4-0 6x8 =6x8= 34 6 35 7 × 12 10 33 36 ³⁷8 38 32 11-9-0 8-4-0 5 31 30 ³⁹40 12-0-0 5x8 🛥 5x6= 4 9 0-6-12 12 41 3-5-0 3 2x4 🍫 Ţ 10 28²⁹ 2-10-4 41 10-4 11 Ś 12 -9 1-9-1 21 20 19 1842 17 43 16 44 15 45 14 13 3x6 =3x8= 4x6= 2x4 II 8-2-12 12-4-11 7-2-6 17-6-15 25-0-7 34-8-15 43-7-8 37-4-4 7-2-6 1-0-6 4-1-15 5-2-5 7-5-7 9-8-8 2 - 7 - 56-3-4 Scale = 1:81 Plate Offsets (X, Y): [3:0-6-0,0-2-8], [6:0-6-4,0-2-0], [7:0-6-4,0-2-0] 2-0-0 CSI DEFL in l/defl L/d PLATES GRIP Loading (psf) Spacing (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.97 Vert(LL) -0.24 14-16 >999 240 MT20 244/190 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.91 Vert(CT) -0.43 14-16 >806 180 TCDL WB 10.0 Rep Stress Incr YES 0.63 Horz(CT) 0.04 13 n/a n/a BCLL 0.0 IRC2015/TPI2014 Matrix-MSH Code

2-21=-176/469, 20-21=-124/485,

19-20=-79/169, 18-19=-67/795,

9-14=0/485, 9-13=-1785/215,

10-13=-535/152, 3-20=-828/156,

4-20=-1325/106, 4-19=-32/929,

5-19=-486/78, 5-17=-95/259

Unbalanced roof live loads have been considered for

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;

Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior

3-0-6 to 13-4-6, Exterior (2) 13-4-6 to 29-3-0, Interior (1)

zone and C-C Exterior (2) -1-4-0 to 3-0-6. Interior (1)

29-3-0 to 40-7-2, Exterior (2) 40-7-2 to 44-11-8 zone;

cantilever left and right exposed ; end vertical left and

right exposed;C-C for members and forces & MWFRS

TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber

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 1.00 times flat roof load of 20.0 psf on

Provide adequate drainage to prevent water ponding.

All plates are 3x5 MT20 unless otherwise indicated.

overhangs non-concurrent with other live loads.

DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow:

Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B;

for reactions shown; Lumber DOL=1.60 plate grip

Wind: ASCE 7-10; Vult=130mph (3-second gust)

11-13=-229/110

18-42=-67/795, 17-42=-67/795, 17-43=0/800,

16-43=0/800, 16-44=0/941, 15-44=0/941,

15-45=0/941. 14-45=0/941. 13-14=0/773.

3-21=0/327. 6-17=-82/259. 6-16=-85/263.

7-16=-47/425, 8-16=-337/239, 8-14=-350/75,

Weight: 279 lb FT = 20%

Page: 1

8) This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 9) 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.

- 10) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 11, and 20. This connection is for uplift only and does not consider lateral forces.
- 11) One RT16A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) 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



818 Soundside Road Edenton, NC 27932

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

BOT CHORD

WEBS

NOTES

this design.

DOL=1.60

design.

Fully Exp.; Ct=1.10

1)

2)

3)

4)

5)

6)

7)

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|----------------|-----|-----|--------------------------------|-----------|
| 21040035-A | A05 | Piggyback Base | 5 | 1 | Job Reference (optional) | l45815321 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:37 ID:H_DGpAWtY5DvQYF30m0CuqzNyTg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC201 | 5/TPI2014 | CSI TC BC WB Matrix-MSH | 0.99 0.91 0.60 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.24 -0.43 0.06 | (loc) 16-17 16-17 14 | l/defl >999 >813 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 306 lb | GRIP 244/190 FT = 20% |
|--|---|--|---|---|---|---|--|--|---|--|---|---|---|
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD 1 Row at midp WEBS | 2x4 SP No.2 2x4 SP No.2 *Excep 2x4 SP No.3 *Excep Structural wood she except 2-0-0 oc purlins (5-2 Rigid ceiling directly bracing. Except: t 7-19 1 Row at midpt | t* 22-5:2x4 SP No.3 t* 19-6,17-8:2x4 SP N athing directly applied 2-7 max.): 6-8. applied or 6-0-0 oc 6-19, 8-17, 9-17, 9-10 | B(No.2 J, W | DT CHORD 2 2 1 1 EBS 3 6 8 9 1 2 | 2-24=-185/301, 23- :2-23=-23/18, 21-2; :0-21=-136/743, 20 8-19=-177/0, 7-19 7-44=0/909, 44-45 5-16=0/731, 14-15 :-24=0/365, 5-20=-4 :-19=-114/291, 17- :-19=-119/747, 8-11 :-17=-340/239, 9-10 0-14=-1704/216, 1 :-21=-97/1108, 3-2; :-22-296/52, 24: | 24=-17; 2=0/44, -43=0/8 =-452/1 =0/909 =0/731 44/359, 19=0/10 7=-276/ 6=-346/ 1-14=- 3=-832/ 3=-832/ | 5/319, 5-21=-735/1 318, 19-43=0 39, 17-18=-5 , 16-45=0/90 , 12-14=-226 6-20=-31/20)24, 122, 78, 10-16=0/ 536/153, 159, 74, 47 | 44, /818, .8/7, 9, /113 9, /464, | 7) Th cha 8) * T on 3-C cha 9) On tru 23. con 10) On tru | is truss h ord live lc his truss the botto 6-00 tall ord and a e RT7A l ss to bea . This cor nsider lat e RT16A ss to bea enaction | as bee bad nor has be om cho by 2-0 ny oth ViTek ring wa nectio eral for MiTek ring wa | n designed for a nconcurrent with - en designed for - rd in all areas wh 0-00 wide will fit I er members, with connectors recon alls due to UPLIF n is for uplift only rces. | 10.0 psf bottom any other live loads. a live load of 20.0psf ere a rectangle between the bottom 1 BCDL = 10.0psf. nmended to connect T at jt(s) 2, 12, and and does not mmended to connect T at jt(s) 14. This a partorexpective lettrop |
| FORCES TOP CHORD | (size) 2=0-3-8, 1 23=0-5-8 Max Horiz 2=195 (LC Max Uplift 2=-202 (L 14=-211 (Max Grav 2=609 (LC (b) - Maximum Com Tension 1-2=0/41, 2-31=-422 3-32=-317/363, 3-4= 5-33=-1215/210, 33 34-35=-984/240, 6-3 6-36=-833/286, 7-36 7-8=-827/286, 8-37= 37-38=-978/290, 9-3 9-39=-855/177, 39-4 40-41=-921/162, 10- 10-11=-108/421, 11- 12-42=-105/260, 12- | 12=0-3-8, 14=0-5-8, 12=0-3-8, 14=0-5-8, 12=0-3-8, 14=0-5-8, 12=0-3-8, 14=0-5-8, 12=0-3-8, 14=0-5-8, 12=0-5, 12=3-8, 12=0-5, 12=3-8, 12=3-8, 12=0-2, 12=0-8, 14=0-2, 14=0-8, 14=0-2, 14=0-8, 14=0-2, 14=0-8, 14=0-2, 14=0-1, 15=0, 14=0-1, 15=0, | N4 1)), 241) 1, 48, 3) 4) 5) 6) | otes Unbalanced I this design. Wind: ASCE Vasd=103mp Cat. II; Exp E zone and C-C 3-0-6 to 13-4 29-3-0 to 40- cantilever left right exposed for reactions DOL=1.60 TCLL: ASCE DOL=1.15 PI Lumber DOL Fully Exp.; C Unbalanced design. This truss ha load of 12.0 p overhangs no Provide adeo | -23=-1269/52, 21-2 roof live loads have 7-10; Vult=130mph h; TCDL=6.0psf; B ; Enclosed; MWFR 2 Exterior (2) -1-4-C -6, Exterior (2) 132 -7-2, Exterior (2) 40 and right exposed ;C-C for members shown; Lumber DC 7-10; Pr=20.0 psf i ate DOL=1.15); Pf= =1.15 Plate DOL=1 show loads have be s been designed for so been designed for so been designed for so for 1.00 times fla on-concurrent with or uate drainage to pro- | 23=-32' been (a (3-sec CDL=6 S (envit to 3-0 I-6 to 2 7-2 to ; end v and for DL=1.6((roof liv =20.0 p .15); C seen corr r greatu t roof la other liv revent v | 7/147 considered for .0psf; h=25ft elope) exterio -6, Interior (1 9-3-0, Interior (1 9-3-0, Interior ertical left ar ces & MWFF 0 plate grip e load: Lumb sf (flat roof si ategory II; E) isidered for the er of min roof bad of 20.0 p re loads. water ponding | or ; or) r (1) ;; id S er now: cp B; his flive sf on g. | cor for 11) Th Int R8 12) Gra bor LOAD | nnection ces. is truss is ernationa 02.10.2 a aphical p the orien ttom chor CASE(S) | is for u a desig I Resic and ref urlin re tation o d.) Star | plift only and doe ned in accordance lential Code sect erenced standard presentation doe of the purlin along ndard H CA SEA 4584 | es not consider lateral ee with the 2015 ions R502.11.1 and d ANSI/TPI 1. s not depict the size the top and/or |

- Provide adequate drainage to prevent water ponding. 6)



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|----------------|-----|-----|--------------------------------|-----------|
| 21040035-A | A06 | Piggyback Base | 1 | 1 | Job Reference (optional) | 145815322 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:38 ID:W3uoXJfrPz3Zi?R8XWiEiezNySC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2015/ | TPI2014 | CSI TC BC WB Matrix-MSH | 0.95 0.78 0.48 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.09 -0.16 0.06 | (loc) 25-28 25-28 14 | l/defl >999 >600 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 313 lb | GRIP 244/190 FT = 20% |
|--|---|---|---|--|---|--|--|---|--|---|--|---|--|
| LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD 1 Row at midp WEBS REACTIONS | 2x4 SP No.2 *Excep 2x4 SP No.2 *Excep 2x4 SP No.3 *Excep Right: 2x4 SP No.3 Structural wood she except 2-0-0 oc purlins (4-6 Rigid ceiling directly bracing. Except: t 7-20 1 Row at midpt (size) 2=0-3-8, 24=0-5-8 | ot* 11-13:2x4 SP No.1 ot* 23-5:2x4 SP No.3 ot* 20-6,18-8:2x4 SP N athing directly applied S-10 max.): 6-8, 10-11 applied or 6-0-0 oc 6-21, 8-18, 9-18 12=0-3-8, 14=0-5-8, | BOT No.2 I, WEE | F CHORD 2 2 2 1 1 1 1 1 8 8 8 8 9 1 1 1 2 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 2-25=-204/296, 24 23-24=-22/17, 22-2 21-22=-133/771, 2 19-20=-5/17, 7-20= 18-46=-14/1120, 1 16-17=-93/1055, 1 14-15=-98/919, 12 3-25=0/362, 5-21= 3-20=-129/336, 18 3-18=-304/132, 9-1 3-17=-26/183, 10-1 10-15=-900/102, 1 11-14=-1691/202, 3 -24=-825/161, 4-2 22-24=-341/154 | -25=-194 23=0/48 1-45=0/8 1-45=0/8 1-45=0/9 14=-200 45/345, -20=0/90 8=-532/ 7=-113/ 1-15=-44 4-22=-92 | 4/313, 5-22=-734/14 342, 20-45=0/; 9, 18-19=-19/ 4/1120, 3/1055, 0/281 6-21=-40/195 6-21=-40/195 6-2=-40/195 6-2=-40/195 6-2=-40/195 6-2=-40/195 6-2=-40/195 6-2=-40/195 6-2=-40/195 6-2=-40/195 6-2=-40/195 6-2=-40/195 6-2=-40/195 6-2=-40/195 6-2=-40/195 6-2=-40/195 7-40/195 | 14, 842, 19, 9, /697, | 6) Pro 7) This cho 8) * Th 3-00 cho 9) One trus 12. con 10) One trus con 10) One trus con 11) This | vide ade struss h rd live ld is truss he botto 6-00 tall rd and a RT7A s to bea This cor sider lat RT16A s to bea nection es. | equate as bee bad nor has be om cho by 2-0 by 2-0 iny oth ViTek ring wa nectio eral for MiTek ring wa is for u | drainage to prev n designed for a cooncurrent with een designed for rd in all areas wh 0-00 wide will fit er members, with connectors recor alls due to UPLIF n is for uplift only ces. c connectors reca alls due to UPLIF plift only and door ned in accordance | ent water ponding. 10.0 psf bottom any other live loads. a live load of 20.0psf here a rectangle between the bottom n BCDL = 10.0psf. mmended to connect T at jt(s) 2, 24, and y and does not commended to connect T at jt(s) 14. This es not consider lateral ce with the 2015 |
| FORCES TOP CHORD | Max Uplifi 2=-135 (cl Max Uplifi 2=-202 (L 14=-106 Max Grav 2=607 (Ll 14=1706 (lb) - Maximum Con Tension 1-2=0/41, 2-32=-411 3-33=-312/377, 3-4= 4-34=-858/158, 5-34 5-35=-1281/248, 35 6-36=-1010/282, 6-3 37-38=-907/306, 7-3 7-39=-905/306, 8-33 8-40=-1066/341, 40 9-41=-1251/305, 9-4 42-43=-1303/265, 1 10-11=-1055/210, 1 12-44=-406/239, 12 | C 69), 12=-183 (LC 7 (LC 15), 24=-167 (LC C 48), 12=574 (LC 53 (LC 43), 24=1737 (LC apression/Maximum 7/322, 32-33=-332/33- =-107/472, 4=-762/161, -36=-1050/259, 37=-907/306, 38=-907/306, 39=-905/306, -9=-905/306, -12=94/267, 0-43=-1585/246, 1-44=-296/290, -13=0/38 | 0), 1) 14) 2) ; 43) 4, 3) 4) 5) | Unbalanced i this design. Wind: ASCE Vasd=103mp Cat. II; Exp B zone and C-(3-0-6 to 13-4 29-3-0 to 40- cantilever left right exposed for reactions DOL=1.60 TCLL: ASCE DOL=1.15 PI Lumber DOL Fully Exp.; Ci Unbalanced s design. This truss ha load of 12.0 p overhangs no | roof live loads hav 7-10; Vult=130mp b; TCDL=6.0psf; J 3; Enclosed; MWFI C Exterior (2) -1-4- -6, Exterior (2) 13- 7-2, Exterior (2) 44 t and right expose d;C-C for members shown; Lumber D 7-10; Pr=20.0 psf ate DOL=1.15); PI =1.15 Plate DOL= t=1.10 snow loads have t s been designed f psf or 1.00 times fl pn-concurrent with | e been of h (3-sec 3CDL=6 RS (envo 0 to 3-0 4-6 to 2 0-7-2 to 3 and for OL=1.60 (roof liv =20.0 p 1.15); C been cor or greate at roof k other liv | considered for ond gust) .0psf; h=25ft; elope) exterior .6, Interior (1) 9-3-0, Interior 44-11-8 zone; ertical left and ces & MWFR) plate grip e load: Lumbe sf (flat roof sn ategory II; Ex] usidered for th er of min roof 1 pad of 20.0 ps re loads. | (1) d S or o B; is live f on | Inte R80 12) Gra or tl bott | rnationa 12.10.2 a phical p ne orien om chor | Il Resid | Jential Code sec erenced standar presentation doe of the purlin along the purlin along SEA 4584 | tions R502.11.1 and d ANSI/TPI 1. es not depict the size g the top and/or |

April 26,2021

Page: 1

Continued on page 2 WARNING - Verify



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|----------------|-----|-----|--------------------------------|-----------|
| 21040035-A | A06 | Piggyback Base | 1 | 1 | Job Reference (optional) | 145815322 |

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 38 lb up at 30-7-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-6=-60, 6-8=-60, 8-10=-60, 10-11=-60, 11-13=-60, 23-26=-20, 20-22=-20,

19-29=-20 Concentrated Loads (lb)

Vert: 42=-7

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:38 ID:W3uoXJfrPz3Zi?R8XWiEiezNySC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|----------------|-----|-----|--------------------------------|-----------|
| 21040035-A | A07 | Piggyback Base | 1 | 1 | Job Reference (optional) | l45815323 |

| Carter Componen | ts (Sanford), Sanford, No | C - 27332, | · | | | Run: 8.5 S (ID:TGbrfQI4 | 0 Apr 20 2021 Pr 4wGk2Y8?K889g | int: 8.500 S A LqzNyRN-Rf(| pr 20 2021 MiTe C?PsB70Hq3NS | k Industries, Inc. gPqnL8w3uITXb(| Sat Apr 24 10:49 GKWrCDoi7J4zJ0 | :39 C?f | Page: 1 |
|--|--|---|---|--|--|--|--|--|---|---|--|---|---|
| | -1-4-0 | 7-0-10 7-0-10 | 8-2-12 1-2-2 | <u>12-4-11</u> 4-1-15 | 17 5 | -8-11 -4-1 | 24-10-11 7-1-15 | | 30-5-8 5-6-14 | 36-0-6 5-6-14 | 37-9-0 1-8-10 | <u>43-7-8</u> 5-10-8 | 44-11-8 |
| 2-10-4 2-5-9 2-5-9 1 8-10-12 2-5-9 8-10-12 | | 4 ¹² 31 | 5x8 = 4 3 23 ≥ 23 ≥ 2x4 ⊪ | 32 ³³ | 10 ¹² 34 5 21 204 3x6 | 6 3 85 4 19 | 46 37 5 8 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10 | 38 7 38 7 18 3x8= | 39 40 6 46 17 3x6 | 8 41 42 6 | 5x6= 5x8= 9 10 15 12413 2x4 II 2x4 | 43 | 11 12 |
| Scale = 1:82.2 | Ļ | 7-2-6 7-2-6 | 8-2-12 1-0-6 | <u>12-4-11</u> 4-1-15 | <u>17-</u> 5- | -6-15 -2-5 | <u>25-0-7</u> 7-5-7 | | <u>30-5-8</u> 5-5-2 | <u>35-10-10</u> 5-5-2 | 37-10-1 37-4-4 1-5-10 0-6-8 | 2 <u>43-7-8</u> 5-8-12 | |
| Plate Offsets (X | , Y): [3:0-6-0,0-2-8], | [6:0-6-4,0-2 | -0], [7:0-6-4 | 4,0-2-0], [| 9:0-2-12,0- | 2-8] | | | | | | | |
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip Lumber DC Rep Stress Code | 2 DOL 1 DL 1 s Incr Y If | 2-0-0 1.15 1.15 (ES RC2015/1 | FPI2014 | CSI TC BC WB Matrix-MSH | 0.97 0.61 0.47 | DEFL Vert(LL) Vert(CT) Horz(CT) | in (loc 0.06 23-2 -0.20 18-1 0.03 1 |) I/defl L/d 5 >999 244 9 >999 180 4 n/a n/a | d PLATES MT20 a Weight: 28 | GRIP 244/19 3 lb FT = 20 | 0 0% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS (N FORCES TOP CHORD FOR CHORD | 2x4 SP No.2 *Excep 2.0E 2x4 SP No.2 2x4 SP No.3 *Excep No.2 Structural wood she except 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 13 1 Row at midpt size) 2=0-3-8, 1 22=0-5-8 Max Horiz 2=202 (LC Max Uplift 2=-171 (L 14=-152 (Max Grav 2=674 (LC 14=1843) (lb) - Maximum Com Tension 1-2=0/41, 2-30=-603 3-31=-497/214, 3-4= 4-32=-990/192, 32-3 5-33=-830/212, 5-34 34-35=-963/291, 6-3 6-36=-801/307, 36-3 37-38=-801/307, 36-3 37-38=-801/307, 36-3 37-38=-801/307, 36-3 37-38=-1250/281, 8-4 41-42=-1337/214, 9- 9-10=0/363, 10-43=- 11-12=0/38 | t* 6-7:2x4 Sf t* 19-6,18-6, athing directl -0 max.): 6-7 applied or 1: -14,11-13. 6-18, 8-18, § 11=0-3-8, 14: C 13) C 10), 11=-1 LC 15), 22=- C 48), 11=44 C 13) C 10), 11=-1 LC 15), 22=- c 48), 11=44 C 43), 22= pression/Ma 3/191, 30-31= =-300/247, 3=-879/198, I=-1124/273, 15=-957/310, 17=-801/307, 40=-1052/3(1=-1213/232, 42=-1521/2(-90/322, 11-4) | P 2400F ,18-7:2x4 Si ly applied, 7, 9-10. 0-0-0 oc 5-19 =0-5-8, 42 (LC 11), -149 (LC 14 6 (LC 53), -1548 (LC 4 its48 (LC 4 its48 (LC 4 its48 (LC 4), -1548 (LC 4), -519/199, -00, 4, -00, | BOT P WEE NOT 1) (1) (1) (2) (3) (3) (4) (5) (9, (6) (7) (0) (1) (| CHORD SS ES Jnbalancer his design. Wind: ASC Vasd=103m Cat. II; Exp zone and C 3-0-6 to 13: 29-3-0 to 44 cight exposi- for reaction DOL=1.60 COL: ASC DOL=1.15 Lumber DC Fully Exp.; Jnbalancer design. This truss h oad of 12.0 previde ade All plates a | 2-23=-176/472 21-22=-95/172 20-44=-70/792 18-45=0/804, 16-17=-1/106 14-15=-11/067 14-15=-11/067 14-15=-11/535 11-13=-223/86 3-23=0/322, 3-23=0/32, 3-23=0/322, 3-23=0/322, 3-23=0/322, 3-23=0/322, 3-23=0/322, 3-23=0/322, 3-23=0/322, 3-23=0/322, 3-23=0/322, 3-23=0/32, 3- | 2, 22-23=-123/ 2, 20-21=-70/73 3, 19-44=-70/77 18-46=-1/1061 1, 15-16=-7/54 9, 13-14=-234/ 5 -19=-73/286, 6 8-18=-437/24 9-15=0/169, 10 6, 4-22=-1319/ 5-21=-504/78 54, 10-14=-606 8 have been co 80mph (3-seco psf; BCDL=6.0 (WFRS (envelu- 1-4-0 to 3-0-6 2) 13-4-6 to 29- (2) 40-7-2 to 44 cosed ; end ver nbers and force ther DOL=1.60 p 0 psf (roof live 5); Pf=20.0 psf 0OL=1.15); Cat ave been cons need for greater the for greater the for greater the for greater the for greater 13-4-6 to 20- 15, Pf=20.0 psf 00L=1.15); Cat 15, Pf=20.0 psf 15, Pf=20. | 488, 93, 93, 19-45=0, , 17-46=-1/ 2, 77, -18=-99/25 0, 8-16=-99 -13=0/346, 114, , 5-19=-91/2 //33 nsidered fo nd gust) psf; h=25ft; ope) exterior , Interior (1] 3-0, Interior (1] s-8, MWFR blate grip load: Lumb (flat roof sr eegory II; Ex idered for th of min roof d of 20.0 ps loads. ther ponding | 8) T (/804, 9) * 1061, 0 100 C 8, 11) C 8, 11) C 262, 11 7 12) T 13) C r 13) C r (1) LOAI ; d s er iow: p B; iis live sf on p. | his truss has b hord live load r This truss has n the bottom cl -06-00 tall by 2 hord and any o ne RT7A MiTe uss to bearing 1. This connec onsider lateral ne RT16A MiT uss to bearing onnection is for orces. his truss is des iternational Re 802.10.2 and r iraphical purlin r the orientation ottom chord. | een designed f honconcurrent i been designed ord in all area -00-00 wide wi ther members, ik connectors r walls due to U r uplift only and igned in accor- sidential Code referenced star representation n of the purlin a tandard | or a 10.0 psf with any othe i for a live loa s where a reco s where a reco mendec PLIFT at jt(s) only and doe recommende PLIFT at jt(s) i does not cou dance with th sections RSO dard ANSI/T o does not dep along the top | bottom r live loads. d of 20.0psf tangle the bottom 10.0psf. I to connect 2, 22, and is not ad to connect 14. This his der lateral e 2015 2.11.1 and Pl 1. botc the size and/or |

- Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10 4) Unbalanced snow loads have been considered for this
 - design. 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding. 6)
 - 7) All plates are 3x5 MT20 unless otherwise indicated.



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|-----------------------|-----|-----|--------------------------------|-----------|
| 21040035-A | A08 | Piggyback Base Girder | 1 | 1 | Job Reference (optional) | 145815324 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries. Inc. Sat Apr 24 10:49:41 ID:UtmO3JX3vbbaoqow6Z_bUKzNyPn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Plate Offsets (X, Y): [6:0-6-4,0-2-0], [10:0-6-4,0-2-0], [19:0-2-12,0-2-8]

| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 NO IRC2015/TPI2014 | CSI TC BC WB Matrix-MSH | 0.67 0.36 0.91 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.04 -0.08 0.02 | (loc) 37-39 37-39 30 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 390 lb | GRIP 244/190 FT = 20% | |
|--|--|--|--|--|---|--|------------------------------|-------------------------------|--|--|----------------------------------|---|--|
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD WEBS JOINTS REACTIONS | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep 37-6,36-6,7-36,36-11 2x4 SP No.3 Structural wood she 4-6-4 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt 1 Brace at Jt(s): 44, 46 (size) 2=8-5-8, 28=2-5-8, 40=0-3-8, 52=8-5-8 Max Horiz 2=229 (LC Max Uplift 2=-127 (L 28=-121 (41=-202 (52=-127 (L 28=-127 (L) 28=-127 (L) 28=- | t* 0,35-10:2x4 SP No.2 athing directly applie cept -0 max.): 6-10, 19-2(applied or 6-0-0 oc 5-37, 6-36, 7-36, 36- 8-43, 11-45 22=0-3-8, 27=0-3-8, 29=2-5-8, 30=0-3-8, 41=8-5-8, 42=8-5-8, C 11), 52=229 (LC 11 C 66), 22=-141 (LC 5 LC 13), 29=-136 (LC LC 68), 42=-60 (LC 6 LC 66), 24=530 (LC 51 | TOP CHORD d or). -44, BOT CHORD)) -13), -36),). | $\begin{array}{c} 1-2=0/41, 2-58=-13\\ 3-4=-120/263, 4-59\\ 59-60=-975/124, 5-\\ 5-61=-1133/189, 6-\\ 6-62=-758/204, 62-\\ 7-63=-758/204, 7-8\\ 8-64=-758/204, 7-8\\ 8-64=-758/204, 10-\\ 11-65=-982/228, 12\\ 12-13=-1097/200, 1\\ 14-15=-1203/174, 1\\ 16-17=-1010/130, 1\\ 18-66=-1120/100, 1\\ 19-67=-484/164, 20\\ 20-21=-520/157, 21\\ 22-23=0/39\\ 2-42=-124/137, 41-\\ 40-41=-253/155, 33-34\\ 31-32=0/786, 30-31\\ 29-30=-428/120, 26\\ 27-28=-301/107, 26\\ 24-25=-80/477, 29\\ 24-25=-80/477, 29\\ 24-25=-80/477, 29\\ 24-25=-80/477, 26\\ 24-25=-80/472, 26\\ 24-25=-80/477, 26\\ 24-25=-80/477, 26\\ 24-25=-80/477, 26\\ 24-25=-80/477, 26\\ 24-25=-80/477, 26\\ 24-25=-80/477, 26\\ 24-25=-80/477, 26\\ 24-25=-80/477, 26\\ 24-25=-80/477, 26\\ 24-25=-80/477, 26\\ 24-25=-80/477, 26\\ 24-25=-80/477, 26\\ 24-25=-80/472, 26\\ 24-25, 26$ | 3/151, 3 =-1109/ 60=-90/ 61=-94 63=-75/ 4=-758/ 11=-93 2-65=-11 13-14=- 15-16=- 17-66=- 17-66=- 17-66=- 17-66=- 18-19=- 17-66=- 17-66=- 19-67=-41 1-22=-5/ 42=-95/ 3-40=-22 68=-60/ 69=-11/ 70=0/76 4=0/786 5=27=-3 5-27=-3 5-27=-3 5-27=-3 | 3-58=-116/13 (114, 9/138, 7/207, 8/204, 1/204, 1/204, 0/3/219, 1097/185, 1226/122, 1015/104, 1226/122, 1015/104, 1227, 1015/104, 1227, 1015/104, 1227, 1015/104, 1015/104, 1015/104, 1015/104, 1015/104, 1015/104, 1015/104, 1015/104, 1015/104, 1017, | 30, 767, 36, | NOTES 1) Unt this | b balanced i design. | 3-42= 4-41= 6-36= 36-43 31-44 33-45 113-46 34-47 19-50 19-51 11-45 19-51 11-45 19-51 11-45 20-25 51 11-45 26-51 1 3 - 6-51 | | 136/72, -72/1099, 75/185, 6-37= 318/111, =-135/248, =-152/436, =-337/214, -32/239, -451/13, =-50/1327, =-1311/137, =-1311/137, =-177/795, 60/24, 9-44=- 9/23, 14-47=- 60/48, 17-49= =-706/157, 9/43 ene considere | 92/295, -23/18, -10/3, 21/28, ed for |
| FORCES | 2047 (L) 27=177 (L) 29=568 (L) 40=128 (L) 42=372 (L) 42=372 (L) | LC 50), 22=350 (LC 4 LC 41), 30=234 (LC 4 LC 7), 41=1406 (LC 4 LC 46), 52=347 (LC 4 | // 41), 11), 11), 16) | 24-20=-00/411, 22- | 24=-00/ | ÷, / | | | C. The second se | | SEA 4584 | L 14 | Marine I. |
| | Tension | ipression/iviaximum | | | | | | | | 1 | | | Ē |



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Continued on page 2



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|-----------------------|-----|-----|--------------------------------|-----------|
| 21040035-A | A08 | Piggyback Base Girder | 1 | 1 | Job Reference (optional) | 145815324 |

Run: 8.5.S.0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:41

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Page: 2

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

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- and the load for concurrent with any other live loads.
 This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle
 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

12) _{N/A}

- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 205 lb down and 41 lb up at 39-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 17) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (lb/ft) Vert: 1-4=-60, 4-6=-60, 6-10=-60, 10-19=-60, 19-20=-60, 20-23=-60, 52-55=-20
 - Concentrated Loads (lb)

Vert: 20=-47 (F), 18=-102 (F), 29=-29 (F), 27=-23 (F), 67=-43 (F), 71=-205 (F)

nce with the 2015

ndard ANSI/TPI 1. n does not depict the size along the top and/or



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|----------------|-----|-----|--------------------------------|-----------|
| 21040035-A | B01 | Piggyback Base | 2 | 1 | Job Reference (optional) | 145815325 |

TCDL

BCLL

BCDL

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:43 ID:10THX5a46XtbZoCPWZWDqzzNyN8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

818 Soundside Road Edenton, NC 27932



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|----------------|-----|-----|--------------------------------|-----------|
| 21040035-A | B02 | Piggyback Base | 6 | 1 | Job Reference (ontional) | 145815326 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:44 ID:c?CtCdwCqx4F5V41LDYZeazNyO_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

818 Soundside Road Edenton, NC 27932



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|--------------------------------|-----|-----|--------------------------------|-----------|
| 21040035-A | B03 | Piggyback Base Supported Gable | 1 | 1 | Job Reference (optional) | 145815327 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:44 ID:29QUYvMLfoHnZQZBfZjmnuzNyOi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



20-21=-143/95, 21-22=-232/173, 22-23=0/51 Max Horiz 2=-288 (LC 12), 41=-288 (LC 12) BOT CHORD 2-40=-164/245 39-40=-115/245 Max Uplift 2=-96 (LC 10), 22=-28 (LC 11), 38-39=-115/245, 37-38=-115/245, 24=-122 (LC 15), 25=-72 (LC 15), 36-37=-115/245, 35-36=-115/245, 26=-86 (LC 15), 27=-80 (LC 15), 34-35=-115/245, 33-34=-115/245 28=-103 (LC 15), 31=-25 (LC 11), 32-33=-115/245, 31-32=-115/245, 32=-40 (LC 10), 33=-24 (LC 11), 30-31=-115/245, 29-30=-115/245, 34=-8 (LC 11), 36=-99 (LC 14), 28-29=-115/245, 27-28=-115/245, 37=-80 (LC 14), 38=-87 (LC 14), 26-27=-115/245, 25-26=-115/245, 39=-69 (LC 14), 40=-132 (LC 14), 24-25=-115/245, 22-24=-115/245 41=-96 (LC 10), 44=-28 (LC 11)



TREN

818 Soundside Road Edenton, NC 27932

Continued on page 2

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|--------------------------------|-----|-----|--------------------------------|-----------|
| 21040035-A | B03 | Piggyback Base Supported Gable | 1 | 1 | Job Reference (optional) | 145815327 |

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-4-0 to 2-2-8, Exterior (2) 2-2-8 to 9-4-7, Corner (3) 9-4-7 to 15-10-3, Exterior (2) 15-10-3 to 16-6-13, Corner (3) 16-6-13 to 23-0-9, Exterior (2) 23-0-9 to 30-6-2, Corner (3) 30-6-2 to 33-9-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 10) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * 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.
- 13) _{N/A}
- 14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 41.
- 15) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) 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

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



Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:44 ID::29QUYvMLfoHnZQZBfZjmnuzNyOi-Rfc?PsB70Hq3NSgPqnL&w3uITxbGKWrCDoi7J4zJC?f Page: 2

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------------------|-----|-----|--------------------------------|-----------|
| 21040035-A | C01 | Common Supported Gable | 1 | 1 | Job Reference (optional) | 145815328 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:45 ID:jm6DaOoYDZWi5q7jf8pq9HzNyIz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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| <u> </u> | | |
|----------|----------|--|
| Scale | = 1:64.3 | |

Plate Offsets (X, Y): [2:0-3-8,Edge], [16:0-3-8,Edge]

| | | | | - | | | | | | | | | | | |
|---|--|--|---|--|---|--|--|---|----------------------------|--|--|--|--|---|---|
| Loading TCLL (roof) | (p 20 | osf) 0.0 | Spacing Plate Grip DOL | 2-0-0 1.15 | | CSI TC | 0.13 | DEFL Vert(LL) | in n/a | (loc) - | l/defl n/a | L/d 999 | PLATES MT20 | GRIP 244/19 | 90 |
| Snow (Pf) | 20 | 0.0 | Lumber DOL | 1.15 | | BC | 0.06 | Vert(CT) | n/a | - | n/a | 999 | | | |
| TCDL | 10 | 0.0 | Rep Stress Incr | YES | | WB | 0.12 | Horz(CT) | 0.01 | 16 | n/a | n/a | | | |
| BCLL | (| 0.0* | Code | IRC20 | 15/TPI2014 | Matrix-MSH | | | | | | | | | |
| BCDL | 1 | 0.0 | | | | | | | | | | | Weight: 170 | lb FT = 2 | 20% |
| LUMBER TOP CHORD BOT CHORD OTHERS WEDGE BRACING TOP CHORD | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left: 2x4 SP N Right: 2x4 SP | lo.3 No.3 | athing directly applied | tor E | TOP CHORD 30T CHORD | 1-2=0/51, 2-3=-28 4-5=-150/139, 5-6: 7-37=-126/164, 8- 8-9=-189/219, 9-11 10-38=-113/146, 1 11-12=-40/69, 12- 14-15=-154/99, 15 2-29=-149/230, 28 | 1/199, 3 =-128/10 37=-113 0=-189/2 1-38=-1 13=-72/5 -16=-22 -29=-10 | -4=-204/170, 17, 6-7=-103/1 (170, 119, 26/138, 55, 13-14=-90/ 8/168, 16-17= 3/230, | 221, /64, :0/51 (| 4) TC DC Lui Ful 5) Un des 6) Thi Ioa | LL: ASC DL=1.15 I mber DO ly Exp.; (balanced sign. s truss h d of 12.0 | E 7-10 Plate E L=1.1 Ct=1.1 I snow as bee psf or | y; Pr=20.0 psf DOL=1.15); Pf⊧ 5 Plate DOL=1 0 · loads have b en designed fo · 1.00 times fla | (roof live loa =20.0 psf (fla .15); Categ een conside or greater of at roof load (| ad: Lumber at roof snow: jory II; Exp B; ered for this min roof live of 20.0 psf on |
| | 6-0-0 oc purlin | IS. | and an oblig applied | | | 27-28=-103/230, 2 | 6-27=-1 | 03/230, | | ove | erhangs | non-co | ncurrent with | other live loa | ads. |
| BOT CHORD | Rigid ceiling di bracing. | irectly | applied or 10-0-0 oc | | | 25-26=-103/230, 2 23-24=-103/230, 2 | 4-25=-1 2-23=-1 | 03/230, 03/230, 02/220 | 5 | 7) All 3) Ga | plates ai ble requi | e 2x4 res co | MT20 unless | otherwise in | ndicated. earing. |
| WEBS | 1 Row at midp | ot s | 9-24, 8-25, 10-22 | | | 21-22=-103/230, 2 | 0-21=-1 | 03/230, | (| 9) Ga | ble studs | space | ed at 2-0-0 oc. | - 40.0 4 | |
| REACTIONS | (size) 2=2 19= 26= 29= Max Horiz 2=-2 Max Uplift 2=-5 18= | 3-1-0, 23-1-0 23-1-0 23-1-0 23-1-0 265 (L0 90 (LC -104 (I | 16=23-1-0, 18=23-1 , 20=23-1-0, 21=23- , 24=23-1-0, 25=23- , 27=23-1-0, 28=23- , 30=23-1-0, 34=23- C 12), 30=-265 (LC 1 10), 16=-33 (LC 11) C, 15), 19=-80 (LC 1) | -0, 1-0, 1-0, 1-0, 1-0 (2) , | WEBS | 16-18=-103/230 9-24=-215/122, 8- 7-26=-147/111, 5- 4-28=-143/108, 3- 10-22=-191/100, 1 13-20=-142/106, 1 15-18=-148/103 | 25=-191, 27=-142, 29=-148, 1-21=-1 4-19=-1 | /103, /106, /108, 47/112, 43/108, | | cha 11) * T on 3-0 cha 12) _{N/A} | brd live lo his truss the botto 6-00 tall brd and a | has be has be om cho by 2-0 iny oth | nconcurrent w een designed ord in all areas 00-00 wide will er members. | ith any othe for a live loa where a rec fit between | ad of 20.0psf ctangle the bottom |
| | 20= | -83 (L0 | C 15), 21=-88 (LC 15 | 5), I | NOTES | | | | | | | | | 1100 | |
| | 22= 26= 28= 30= 18= 20= 22= 25= 27= 29= | 76 (LC 86 (LC 78 (LC 78 (LC 90 (LC | C 15), 25=-79 (LC 14) C 14), 27=-84 (LC 14) C 14), 29=-114 (LC 14) C 10), 34=-33 (LC 11 2 5), 16=190 (LC 27) C 25), 19=182 (LC 2 C 29), 21=176 (LC 2 C 29), 21=176 (LC 2 C 22), 24=231 (LC 14) C 21), 26=174 (LC 2 C 24), 28=180 (LC 2 C 28), 30=230 (LC 2 C 28), 30=230 (LC 2 C 28), 30=230 (LC 2 C 28), 30=230 (LC 2) | (7, 7, 7, 1), (4), (4), (4), (5), (5), (5), (4), (4), (4), (4), (4), (4), (4), (4 | Unbalanced this design. Wind: ASCE Vasd=103m Cat. II; Exp zone and C- 1-6-8 to 8-6 14-6-8 to 21 cantilever le right expose for reactions | Foof live loads have 57-10; Vult=130mg ph; TCDL=6.0psf; B; Enclosed; MWF -C Corner (3) -1-4- -8, Corner (3) 8-6-8 -5-0, Corner (3) 21 ft and right expose ad;C-C for member s shown; Lumber D | re been oh (3-sec BCDL=6 RS (env 0 to 1-6- 3 to 14-6 -5-0 to 2 d ; end v s and fo OL=1.60 | considered for cond gust) 5.0psf; h=25ft; elope) exterio 8, Exterior (2) -8, Exterior (2) -8, Exterior (2 -4-5-0 zone; vertical left and rces & MWFR 0 plate grip | r ?) d | | | di | ORTH C ORTH C SE 45 | AROZ EAL 844 | A CONTRACT OF A |
| FORCES | 34= (lb) - Maximurr Tension | :190 (L n Com | C 27) pression/Maximum | <i>,</i> | DOL=1.60 3) Truss desig only. For st see Standar or consult q | ned for wind loads uds exposed to wir d Industry Gable E ualified building de | in the p nd (norm ind Deta signer as | lane of the tru al to the face) ils as applicat s per ANSI/TF | iss), ble, PI 1. | | | ter Vinter | NOREW | NEER. JOHN | 021 |

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



April 26,2021

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|---------------------------------|---------------------|------------------------|---------------|--------------|---|-----------|
| 21040035-A | C01 | Common Supported Gable | 1 | 1 | Job Reference (optional) | 145815328 |
| Carter Components (Sanford), Sa | anford, NC - 27332, | Run: 8.5 S 0 Apr 20 2 | 021 Print: 8. | 500 S Apr 20 | 2021 MiTek Industries, Inc. Sat Apr 24 10:49:45 | Page: 2 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:45 ID:jm6DaOoYDZWi5q7jf8pq9HzNyIz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 30.

14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | C02 | Common | 6 | 1 | Job Reference (optional) | l45815329 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:45 ID:jI94i0DtD?ouA2jFeHQpXSzNyIR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

Scale = 1:68.7

| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC201 | 5/TPI2014 | CSI TC BC WB Matrix-MSH | 0.55 0.60 0.36 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.19 -0.26 0.03 | (loc) 10-12 10-12 8 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 132 lb | GRIP 244/190 FT = 20% |
|---|--|--|---|--|---|--|--|--|------------------------------|--|--------------------------|----------------------------------|------------------------------------|
| LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 *Excep Left: 2x4 SP No.3 Right: 2x4 SP No.3 Structural wood she 4-7-10 oc purlins. Rigid ceiling directly bracing. (size) 2=0-5-8, 8 Max Horiz 2=-265 (L Max Uplift 2=-114 (L Max Grav 2=1003 (I | t* 10-7,12-3:2x4 SP I athing directly applied applied or 10-0-0 oc 3=0-5-8 C 12) C 14), 8=-114 (LC 15 .C 1), 8=1003 (LC 1) | 2) No.3 d or 3) ;) 4) | Wind: ASCE Vasd=103m Cat. II; Exp E zone and C- 1-8-0 to 8-6- 14-6-8 to 21- cantilever lef right expose for reactions DOL=1.60 TCLL: ASCE DOL=1.15 P Lumber DOL Fully Exp; C Unbalanced design. | 7-10; Vult=130mpl bh; TCDL=6.0psf; E b; Enclosed; MWFF C Exterior (2) -1-4-4 8, Exterior (2) 21 t and right exposed d;C-C for members shown; Lumber DC 7-10; Pr=20.0 psf late DOL=1.15); Pf =1.15 Plate DOL=1 t=1.10 snow loads have b | h (3-sec 3CDL=6 2S (env 0 to 1-8 3 to 14-6 -5-0 to 1; end v and foi DL=1.60 (roof liv =20.0 p 1.15); C een cor | cond gust) .0psf; h=25ft elope) exteric -0, Interior (1 5-8, Interior (24-5-0 zone; certical left ar ces & MWFF) plate grip e load: Lumb sf (flat roof sr ategory II; E) hasidered for th | ; or) 1) RS per now: kp B; his | | | | | |
| FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design | (lb) - Maximum Com Tension 1-2=0/51, 2-19=-114 3-20=-1055/243, 4-2 4-5=-984/266, 5-6=- 7-21=-1056/243, 7-2 8-22=-1144/121, 8-6 2-12=-145/967, 12-2 11-24=0/636, 10-24 5-10=-182/586, 7-10 5-12=-182/586, 3-12 ed roof live loads have n. | pression/Maximum 4/121, 3-19=-981/15 10=-988/246, 984/266, 6-21=-988/2 12=-981/158, 1=0/51 13=0/636, 11-23=0/63 0/636, 8-10=-19/838 1=-364/273, 1=-364/273 been considered for | 5) 8, 6) 246, 7) 36, 8) 9) L(| This truss ha load of 12.0 () overhangs n This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar One RT7A M truss to bear This connect lateral forces This truss is International R802.10.2 ar CAD CASE(S) | is been designed for participation of the second second participation of the second second participation of the second second participation of the second second participation of the second participation of the second participation of the second se | or greate at roof k other liv or a 10.0 vith any for a liv is where if the between comme PLIFT at and do lance w sections dard AN | er of min roof pad of 20.0 p (e loads.) psf bottom other live loa e load of 20.1 a rectangle ween the bott DL = 10.0psi unded to conr jt(s) 2 and 8 es not consid ith the 2015 i R502.11.1 a ISI/TPI 1. | f live sf on dds. Opsf om f. nect der | | Contraction of the second seco | to | SEA 4584 | ROLING INTERNET |
| | | | | | | | | | | | | NOREW J | OHNSOTIT |





| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|--------------|-----|-----|--------------------------------|-----------|
| 21040035-A | C03 | Roof Special | 1 | 1 | Job Reference (optional) | 145815330 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:46 ID:RVIHNFYpsIC3wCHRjSP878zNyI0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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April 26,2021

818 Soundside Road Edenton, NC 27932



| Scalo - 1.81 5 | |
|----------------|--|

Plate Offsets (X, Y): [2:0-3-8,Edge], [11:0-3-8,Edge], [15:0-2-12,0-2-8], [17:0-4-8,0-2-8]

| | | - | | | | | | | | | | | | |
|---------------|---|---------------------------------|-----------|----------------|-------------------------------|------------|-----------------|--------------|-------|----------|-----|----------------|--|----|
| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | | TC | 0.37 | Vert(LL) | -0.06 | 15-16 | >999 | 240 | MT20 | 244/190 | |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | | BC | 0.37 | Vert(CT) | -0.13 | 15-16 | >999 | 180 | | | |
| TCDL | 10.0 | Rep Stress Incr | YES | | WB | 0.51 | Horz(CT) | 0.07 | 11 | n/a | n/a | | | |
| BCLL | 0.0* | Code | IRC201 | 5/TPI2014 | Matrix-MSH | | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | | Weight: 171 lb | FT = 20% | |
| LUMBER | | | 2) | Wind: ASCE | 7-10; Vult=130mpl | h (3-sec | ond gust) | | | | | | | |
| TOP CHORD | 2x4 SP No.2 | | | Vasd=103mp | oh; TCDL=6.0psf; E | BCDL=6 | .0psf; h=25ft | t; | | | | | | |
| BOT CHORD | 2x4 SP No.2 *Excep | t* 18-5,9-14:2x4 SP | No.3 | Cat. II; Exp E | ; Enclosed; MWFF | RS (env | elope) exteri | or | | | | | | |
| WEBS | 2x4 SP No.3 | | | zone and C-0 | Exterior (2) -1-4-0 | 0 to 1-8 | -0, Interior (1 |) | | | | | | |
| WEDGE | Left: 2x4 SP No.3 | | | 1-8-0 to 8-6-8 | 3, Exterior (2) 8-6-8 | 5 to 14-0 | 5-8, Interior (| 1) | | | | | | |
| | Right: 2x4 SP No.3 | | | cantilever lef | t and right exposed | -5-0 10 | ertical left ar | hd | | | | | | |
| | o | | | right exposed | d:C-C for members | and for | ces & MWFF | RS | | | | | | |
| TOP CHORD | Structural wood sheat 3-9-15 oc purlins. | athing directly applie | d or | for reactions | shown; Lumber DC | DL=1.60 |) plate grip | | | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 10-0-0 oc | ; 3) | DOL=1.60 | 7-10 [.] Pr=20.0 psf | (roof liv | e load: Lumb | her | | | | | | |
| 1 Row at midn | bracing. Except: | | 0) | DOL=1.15 PI | ate DOL=1.15); Pf | =20.0 p | sf (flat roof s | now: | | | | | | |
| | (size) 2-0-5-8 1 | 11-0-5-8 | | Lumber DOL | =1.15 Plate DOL= | 1.15); C | ategory II; E | xp B; | | | | | | |
| REACTIONS | (3/26) 2=0-3-0, 1 Max Horiz 2=-265 (1) | C 12) | | Fully Exp.; C | t=1.10 | | | | | | | | | |
| | Max Uplift 2=-114 (L | C 14) 11=-114 (I C ⁻ | 4) 15) | Unbalanced | snow loads have b | een cor | isidered for t | nis | | | | | | |
| | Max Grav 2=1003 (L | _C 1), 11=1003 (LC 1 | 1) 5) | This trues ha | s heen designed fo | or areat | er of min root | flive | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | , 0) | load of 12.0 | osf or 1.00 times fla | at roof le | ad of 20.0 p | sfon | | | | | | |
| | Tension | | | overhangs no | on-concurrent with | other liv | /e loads. | | | | | | | |
| TOP CHORD | 1-2=0/51, 2-26=-116 | 62/115, 3-26=-983/14 827/172 | 45, 6) | This truss ha | s been designed fo | or a 10.0 |) psf bottom | do | | | | | | |
| | 5-27=-827/190 5-6= | 886/286 | 7) | * This truss h | a nonconcurrent w | for a liv | e load of 20 | 105. Ansf | | | | 301110 | 11. | |
| | 6-28=-777/209, 7-28 | 3=-850/177, | '' | on the botton | n chord in all areas | where | a rectangle | 000 | | | | "" CA | DUL | |
| | 7-8=-1886/275, 8-9= | -2029/255, | | 3-06-00 tall b | y 2-00-00 wide will | l fit betv | veen the bott | om | | • | | ITH UA | ROIL | 14 |
| | 9-29=-1896/121, 10- | -29=-1914/117, | | chord and an | y other members. | | | | | Γ | 5 | ONESS | A. | 1, |
| | 10-11=-1024/83, 11- | -12=0/51 | 8) | One RT7A M | liTek connectors re | comme | ended to con | nect | | | | wat | mit | in |
| BOT CHORD | 2-19=-143/895, 18-1 | 9=0/36, 17-18=0/99, | | truss to bear | ng walls due to UF | LIFT at | jt(s) 2 and 1 | 1. | | | | :0 | - X. | 1 |
| | 5-17=-275/189, 16-1 | 7=0/914, 15-16=0/9 | 13, | This connect | ion is for uplift only | and do | es not consi | der | | | | | e - 11 au | |
| | 14-15=0/74, 9-15=-2 | 257/200, 13-14=-17/1 | 119, | lateral forces | designed in second | | the the 2015 | | | | | SEA | L : | = |
| WEBS | 3-10/10/100 | -138/87/ | 9) | Inis truss is | Posidential Code of | ance w | | and | | | | 4584 | 4 | Ξ |
| **200 | 3-17=-326/183 6-17 | /=-304/921. | | R802 10 2 ar | nd referenced stan | dard AN | ISI/TPI 1 | UIU | | | 8 | | 1 d | - |
| | 7-17=-523/188. 7-15 | 5=-191/942, 7-16=0/2 | 242, 17 | | Standard | | | | | | | | | 2 |
| | 10-13=-694/24, 10-1 | 5=-39/797, 13-15=-2 | 2/785 | AD CASE(S) | Stanuaru | | | | | | - 7 | 1. ENO | ER. A | 23 |
| NOTES | | | | | | | | | | | 1 | O. GIN | : , cu | N |
| 1) Unbalance | d roof live loads have | been considered for | | | | | | | | | 1 | REIN I | HN | |
| this design | l. | | | | | | | | | | | The J | in the second se | |
| - | | | | | | | | | | | | 20000 | 111. | |

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|--------------|-----|-----|--------------------------------|-----------|
| 21040035-A | C04 | Roof Special | 4 | 1 | Job Reference (optional) | l45815331 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:46 ID:YG6dgVvdoW_oWpaCUIxALTzNyHY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in (lo | oc) l/defl | L/d | PLATES | GRIP | |
|-----------------------|----------------|---------------------|-------------------------|-----------|--------|--------|------------|-----|--------|------|--|
| Plate Offsets (X, Y): | 2:0-3-8,Edge], | [11:0-3-8,Edge], [1 | 5:0-6-4,0-4-0], [17:0-4 | -8,0-3-4] | | | | | | | |
| Scale = 1:79.4 | | | | | | | 1-2-1 | 3 | | | |
| | | | 4-10-2 | 4-9-6 | 6-5-8 | 4-6-8 | 1-2-11 | 1 | | | |
| | | | 4-10-2 | 9-7-8 | 16-1-0 | 20-7-8 | 21 10 0 | _ | | | |

| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2015 | 5/TPI2014 | CSI TC BC WB Matrix-MSH | 0.34 0.66 0.50 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.07 -0.18 0.09 | (loc) 16-17 16-17 11 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 165 lb | GRIP 244/190 FT = 20% | |
|---|--|---|---|--|---|---|--|--|-------------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|-----------|
| LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD WEBS REACTIONS | 2x4 SP No.2 2x4 SP No.2 *Except* 2x4 SP No.3 Left: 2x4 SP No.3 Right: 2x4 SP No.3 Structural wood shear 3-8-3 oc purlins. Rigid ceiling directly a bracing, Except: 6-0-0 oc bracing: 18-7 1 Row at midpt 7 (size) 2=0-5-8, 11 Max Horiz 2=-265 (LC Max Uplift 2=-114 (LC | * 18-5,9-14:2x4 SP N thing directly applied applied or 10-0-0 oc 19. 7-17 1=0-5-8 2 12) 2 (4), 11=-114 (LC 1 | 1) No.3 2) d or 3) 5) 4) | Unbalanced this design. Wind: ASCE Vasd=103mp Cat. II; Exp B zone and C-C 1-8-0 to 8-6-8 14-6-8 to 21- cantilever left right exposec for reactions DOL=1.60 TCLL: ASCE DOL=1.15 PI Lumber DOL Fully Exp.; C | roof live loads have 7-10; Vult=130mpt h; TCDL=6.0psf; B ;; Enclosed; MWFR C Exterior (2) -1-4-C 3, Exterior (2) -8-6-8 5-0, Exterior (2) 2-1 t and right exposed t;C-C for members shown; Lumber DC 7-10; Pr=20.0 psf ate DOL=1.15); Pf= =1.15 Plate DOL=1 t=1.10 shown back back back | been (3-sec GCDL=6 S (env) to 1-8 to 14-(-5-0 to 1) ; end \(1, 2, 0, 0) (roof liv) =20.0 p 1.15); C | considered for cond gust) .0psf; h=25ft elope) exterii -0, Interior (1 24-5-0 zone; vertical left ar cces & MWFf 0 plate grip e load: Lumt sf (flat roof s ategory II; E: | or ; or) 1) nd RS over now: xp B; bis | | | | | | |
| FORCES | Max Grav 2=1003 (LC (lb) - Maximum Comp | C 1), 11=1003 (LC 1) pression/Maximum |) 5) | design. This truss ha | s been designed fo | or great | er of min roo | flive | | | | | | |
| TOP CHORD | Tension 1-2=0/51, 2-26=-1171 3-4=-1033/145, 4-27= 5-27=-900/177, 5-6=- 6-28=-700/207, 7-28= 7-8=-1102/145, 8-9=- 9-29=-2352/140, 10-2 10-11=-1028/85, 11-1 | I/116, 3-26=-1018/14 941/161, 1026/290, 779/175, 1264/126, 29=-2368/133, 12=0/51 | 40, 6) 7) | load of 12.0 p overhangs no This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and and | osf or 1.00 times fla on-concurrent with s been designed fo d nonconcurrent w as been designed in n chord in all areas y 2-00-00 wide will y other members | at roof le other liv or a 10.0 rith any for a liv where fit betv | bad of 20.0 p ve loads. D psf bottom other live loa e load of 20. a rectangle veen the bott | sf on ads. Opsf om | | 0 | and a state | ORTH CA | ROLIN | مية |
| BOT CHORD | 2-19=-141/912, 18-19 5-17=-267/178, 16-17 15-16=-86/1958, 14-1 13-14=-10/123, 11-13 | 9=-9/18, 17-18=0/88, 7=0/912, 15=-1/84, 9-15=0/823 3=-16/699 | , 8) 3, | One RT7A M truss to beari This connect lateral forces | iTek connectors re ng walls due to UP ion is for uplift only | comme LIFT at and do | nded to con jt(s) 2 and 1 es not consid | nect 1. der | | | | SEA 4584 | 4 | ALCONT OF |
| WEBS | 3-17=-228/149, 6-17= 7-17=-545/184, 7-16= 10-13=-839/30, 10-15 13-15=-10/884, 3-19= | =-269/968, =0/394, 9-16=-1086/ [,] 5=-50/1136, =-111/75. | 9) 173, | This truss is International R802.10.2 ar | designed in accord Residential Code s nd referenced stand | ance w sections dard AN | ith the 2015 R502.11.1 a ISI/TPI 1. | and | | | N. P. | - SNGINE | ER.O | nin . |
| NOTES | 17-19=-135/915 | | LC | DAD CASE(S) | Siandard | | | | | | 11 | REW JO | HNSII | |

April 26,2021

TERSINEERING BY CREENCO A MITek Attillate 818 Soundside Road Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | C05 | Common | 1 | 1 | Job Reference (optional) | 145815332 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:47 ID:vVRxI1ARcHIg9BGRmNKKE6zNyHC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Plate Offsets (X, Y): [1:0-3-8,Edge], [6:0-3-8,Edge]

Scale = 1:68.7

| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2015 | 5/TPI2014 | CSI TC BC WB Matrix-MSH | 0.53 0.60 0.38 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.19 -0.25 0.03 | (loc) 8-10 8-10 6 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 130 lb | GRIP 244/190 FT = 20% | |
|---|---|---|---|--|---|--|---|------------------------------|----------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|-----|
| LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 *Excep Left: 2x4 SP No.3 Right: 2x4 SP No.3 Structural wood shea 4-8-11 oc purlins. Bigid ceiling directly | t* 8-5,10-2:2x4 SP N athing directly applie | 2) lo.3 ed or | Wind: ASCE Vasd=103mp Cat. II; Exp E zone and C-0 3-0-0 to 8-7-1 14-7-0 to 21- cantilever lef right exposed for reactions DOL=1.60 | 7-10; Vult=130mpl b; TCDL=6.0psf; E 8; Enclosed; MWFF C Exterior (2) 0-0-0 0, Exterior (2) 8-7- 5-8, Exterior (2) 21 t and right exposed t;C-C for members shown; Lumber DC | h (3-sec 3CDL=6 8S (env) to 3-0- to 14- -5-8 to 1; end v and for DL=1.60 | ond gust) .0psf; h=25ft elope) exterio 0, Interior (1) 7-0, Interior (1) 24-5-8 zone; rertical left ar cces & MWFF 0 plate grip | ; pr 1) nd RS | | | | | | |
| REACTIONS | (size) 1=0-5-8, 6 Max Horiz 1=-257 (L Max Uplift 1=-86 (LC Max Grav 1=923 (LC | 5=0-5-8 C 12) : 14), 6=-115 (LC 15) C 1), 6=1007 (LC 1) |) 3)) 4) | 3) TCLL: ASCE 7-10; P1=20.0 psi (root live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psi (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10 4) Unbalanced snow loads have been considered for this design | | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | 5) | This truss ha | s been designed fo | or great | er of min roof | f live sf on | | | | | | |
| TOP CHORD | 1-17=-1158/146, 2-1 2-18=-1072/259, 3-1 3-19=-989/270, 4-19 4-5=-1060/226, 5-20 6-20=-1150/126, 6-7 | 7=-991/170, 8=-992/282, =-1045/249, =-986/163, '=0/51 | 6) 7) | overhangs non-concurrent with other live loads. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle | | | | | | | | | | |
| BOT CHORD | 1-10=-162/982, 10-2 9-22=0/640, 8-22=0/ | 1=0/640, 9-21=0/64 640, 6-8=-20/842 | 0, | 3-06-00 tall b chord and an | y 2-00-00 wide will v other members. | I fit betv with BC | veen the botto $DL = 10.0$ ps | om f. | | \wedge | J. S. | RTHUA | OLIN | |
| WEBS | 3-8=-182/584, 5-8=- 2-10=-366/276 | 364/273, 3-10=-189/ | 605, 8) | One RT7A M truss to bear | liTek connectors re | comme LIFT at | nded to conr it(s) 1 and 6 | nect | | - 0 | E. | riately | hing | حبر |
| NOTES 1) Unbalance this design | ed roof live loads have n. | been considered for | 9) | This connect lateral forces This truss is International R802.10.2 ar | ion is for uplift only designed in accord Residential Code s nd referenced stan | and do lance w sections dard AN | es not consid ith the 2015 R502.11.1 a ISI/TPI 1. | der and | | 111111 | | SEA 4584 | 4 | |

LOAD CASE(S) Standard



April 26,2021



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | C06 | Common | 2 | 1 | Job Reference (optional) | 145815333 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:47 ID:5u7XAcW?0uHiWVPpPFruM0zNyGm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

Scale = 1:68.3

| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2015 | 5/TPI2014 | CSI TC BC WB Matrix-MSH | 0.50 0.60 0.38 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.19 -0.25 0.02 | (loc) 6-8 6-8 5 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 127 lb | GRIP 244/190 FT = 20% |
|---|--|---|---|--|---|--|---|------------------------------|--------------------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|
| LUMBER TOP CHORD BOT CHORD WEBS WEDGE | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 *Excep Left: 2x4 SP No.3 Right: 2x4 SP No.3 | t* 6-4,8-2:2x4 SP No | 2) 0.3 | Wind: ASCE Vasd=103mp Cat. II; Exp E zone and C-C 3-0-0 to 8-7-0 14-7-0 to 20- cantilever left | 7-10; Vult=130mpł ph; TCDL=6.0psf; E s; Enclosed; MWFR C Exterior (2) 0-0-0 0, Exterior (2) 8-7-0 1-8, Exterior (2) 20 | n (3-sec SCDL=6 SS (env to 3-0- to 14-1 -1-8 to | cond gust) .0psf; h=25ft elope) exterio 0, Interior (1) 7-0, Interior (23-1-8 zone; | ; or 1) | | | | | |
| BRACING TOP CHORD | Structural wood she | athing directly applie | d or | right exposed for reactions | d;C-C for members shown; Lumber DC | and for DL=1.60 | ces & MWFF) plate grip | RS | | | | | |
| BOT CHORD REACTIONS | Rigid ceiling directly bracing. (size) 1=0-5-8, 5 Max Horiz 1=239 (LC Max Uplift 1=-86 (LC Max Cray, 1=925 (J | applied or 10-0-0 oc 5=0-5-8 C 11) : 14), 5=-86 (LC 15) C 1), 5=-925 (LC 1) | 3) | DOL=1.60 TCLL: ASCE DOL=1.15 Pl Lumber DOL Fully Exp.; C Unbalanced | 7-10; Pr=20.0 psf ate DOL=1.15); Pf: =1.15 Plate DOL=1 t=1.10 snow loads have b | (roof liv =20.0 p I.15); C een cor | e load: Lumb sf (flat roof si ategory II; E) isidered for th | ber now: xp B; his | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | 5) | This truss ha | s been designed fo | or a 10.0 vith any |) psf bottom | ads | | | | | |
| TOP CHORD | 1-15=-1161/150, 2-1 2-16=-1074/265, 3-1 3-17=-987/285, 4-17 4-18=-991/174, 5-18 | 5=-994/174, 6=-991/286, ′=-1069/264, s=-1158/150 | 6) | * This truss h on the botton 3-06-00 tall b chord and an | as been designed n chord in all areas y 2-00-00 wide will y other members. | for a liv where fit betv with BC | e load of 20.0 a rectangle veen the botto DL = 10.0psi | Opsf om f. | | | | | 10. |
| BOT CHORD | 1-8=-176/970, 8-19= 7-20=0/628, 6-20=0/ | 0/628, 7-19=0/628, 628, 5-6=-40/833 | 7) | One RT7A M truss to bear | liTek connectors reing walls due to UP | comme LIFT at | nded to conr it(s) 1 and 5 | nect | | ~ | | TH CA | Rojin |
| WEBS | 3-6=-188/595, 4-6=-3 2-8=-366/276 | 363/276, 3-8=-189/6 | 04, | This connect lateral forces | ion is for uplift only | and do | es not consid | der | | | K | NOFES | Diskis |
| NOTES 1) Unbalance | ed roof live loads have | been considered for | 8) | This truss is International R802.10.2 ar | designed in accord Residential Code s nd referenced stand | ance w ections dard AN | ith the 2015 R502.11.1 a ISI/TPI 1. | and | | | | SFA | The second |

this design.

LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|-----------------------|-----|-----|--------------------------------|-----------|
| 21040035-A | D01 | Attic Supported Gable | 1 | 1 | Ich Reference (ontional) | 145815334 |

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Scale = 1:91.3

| Plate Offsets (| X, Y): [7:0-3-0, | ,0-2-12] | , [8:0-3-0,0-2-12], [| 19:0-4-0 | ,0-2-4] | | | ··· · | | | | | | | | |
|--|--|---|---|---|---|--|---|--|--|--|--|---|---|---|---|----------|
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2 | 015/TPI2014 | CSI TC BC WB Matrix-MSH | 0.29 0.18 0.35 | DEFL Vert(LL) Vert(CT) Horz(CT) | in n/a n/a 0.01 | (loc 17 |) l/defl - n/a - n/a 7 n/a | L/d 999 999 n/a | PLATES MT20 Weight: 302 | GRIP 244/19 lb FT = 2 | 90 20% | |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD | 2x6 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wo 6-0-0 oc purli 2-0-0 oc purli | *Except ood shea ins, exc ins (6-0- | * 41-9:2x4 SP No.: athing directly appli ept end verticals, a 0 max.): 7-8. | 2 ed or and | TOP CHORD | 1-2=-105/122, 2-3 4-47=-489/154, 4 5-48=-568/180, 5- 7-49=-488/132, 48 8-50=-488/132, 48 9-10=-651/203, 11 11-51=-789/176, 1 12-13=-551/55, 11 14-15=-642/50, 12 1-40=-94/100 | =-182/11 48=-636/2 6=-636/2 9-50=-48 9=-591/1 0-51=-67 11-12=-5 3-14=-65 5-16=0/5 | 11, 3-47=-547/ /168, 225, 6-7=-558/ 8/132, 150, 7/180, 07/77, 6/40, 7, 15-17=-692 | /144, /155, /30, | 2) W V C 7 (2 ca riy fc | /ind: ASCI asd=103n at. II; Exp one and C -6-1 to 10- 2) 21-11-8 antilever le ght expose r reaction OI = 1.60 | E 7-10 nph; T(B; Enc -C Cor -7-15, (to 29-4 eft and ed;C-C s show | ; Vult=130mph CDL=6.0psf; B4 closed; MWFR rner (3) 4-4-15 Corner (3) 10-7 4-3, Corner (3) right exposed f or members a m; Lumber DO | (3-second CDL=6.0ps 5 (envelop to 7-6-1, E -15 to 21 29-4-3 to ; end vertic and forces L=1.60 pla | gust) sf; h=25ft; e) interior ixterior (2) 11-8, Exterior 32-4-3 zone cal left and & MWFRS tte grip | or »; |
| BOT CHORD WEBS JOINTS | Rigid ceiling of bracing, Exc 6-0-0 oc brac 1 Row at mid 1 Brace at Jt(32, 22, 30, 24 45, 46 | directly : cept: cing: 18- lpt ; (s): 42, 4, 43, | applied or 10-0-0 o 19,17-18. 34-41 | 0C | BOT CHORD | 39-40=-284/314, 38-39=-284/314, 3) 39-40=-284/314, 38-39=-284/314, 3) 37-38=-284/314, 36-37=-284/314, 3) 35-36=-284/314, 33-35=-64/426, 3) 31-33=-20/358, 29-31=-22/225, consult qualified building designe 26-29=-25/205, 25-26=-22/224, consult qualified building designe 23-25=-22/224, 20-23=-14/350, 20-52=0/609, consult qualified building designe 23-25=-22/224, 20-23=-14/350, 20-52=0/609, consult qualified building designe | | | | | | | the plane (normal to d Details a gner as pe roof live lo 20.0 psf (f 45): Cate | of the truss of the face), s applicable r ANSI/TPI ad: Lumber lat roof snov | , , 1. w: | |
| REACTIONS | (size) 17: 20: 29: 35: 38: 38: 38: 38: 40: Max Uplift 17: 19: 36: 38: 40: Max Grav 17: | =26-9-0 =26-9-0 =26-9-0 =26-9-0 =-340 (L =-35 (LC =-215 (L =-94 (LC =-135 (L =-29 (LC =-135 (L =-29 (LC =694 (L | , 18=26-9-0, 19=26 , 23=26-9-0, 26=26 , 31=26-9-0, 33=26 , 36=26-9-0, 37=26 , 39=26-9-0, 40=26 C 10) C 11), 18=-101 (LC C 15), 35=-299 (LC C 14), 37=-36 (LC C 10), 39=-50 (LC C 10), 39=-50 (LC C 10), 39=-51 (LC | 5-9-0, 5-9-0, 5-9-0, 5-9-0, 5-9-0 : 15), C 42), 14), : 10), 26), | WEBS | 13-34-0/138, 30-3 22-24=-23/257, 24 22-24=-14/212, 27 3-38=-491/136, 3- 45-46=-214/605, 3 45-46=-214/605, 3 45-46=-214/605, 3 45-46=-255/0, 34- 6-41=-195/106, 1 11-21=-579/164, - 43-44=-35/470, 11 41-42=-220/136, 5 8-42=-26/62, 33-3 32-33=-123/4, 20- 32-33=-123/4, 20- 32-32- 32-32- 32-32- 32-32- 32-32- 32-32- 32-32- 32-32- 32-32- 32-32- 32-32- 32-32- 32-32- 32-32 | 19=24/3 32=-13/2 4-27=-23 1-22=-8/1 46=-216 35-45=-2 41=-297 3-21=-43 19-43=-3 5-44=-36 3-42=-13 4=-162/1 22=-123 | 7, 17-10-24%, 10, 28-30=-23 /257, 152 /611, 14/606, /97, 8/121, 6/482, /481, 6/123, 7-42=0 8, 20-21=-37(0, 31-32=-16(| /125, //257, /125, 0/0, 6/0, | 5) Unbalanced snow loads have been considered for design. | | | | | | > |
| FORCES | 19: 23: 29: 33: 36: 38: 40: (lb) - Maximu Tension | =467 (L =244 (L =263 (L =261 (L =225 (L =517 (L =63 (LC m Comp | C 48), 20=359 (LC C 21), 26=263 (LC C 21), 31=243 (LC C 21), 35=304 (LC C 21), 35=304 (LC C 46), 37=303 (LC C 38), 39=322 (LC 25) pression/Maximum | NOTES 1) Unbalance this design | 32-33=-123/4, 20-22=-123/0, 31-32=-166/0, 22-23=-157/0, 30-31=-24/40, 23-24=-23/40, 29-30=-78/0, 24-26=-75/0, 28-29=-85/0, 26-27=-86/0, 12-19=-106/71, 13-43=-5/51, 14-44=-205/108, 18-44=-207/142, 5-45=-180/120, 36-45=-181/120, 4-46=-277/69, 37-46=-268/69, 2-39=-325/86 ed roof live loads have been considered for | | | | | | 458 458 VOREW | NEER. | Autor | | | |

this design.

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems. See **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



April 26,2021

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|---------------------------------|---------------------|-----------------------|---------------|--------------|---|-----------|
| 21040035-A | D01 | Attic Supported Gable | 1 | 1 | Job Reference (optional) | l45815334 |
| Carter Components (Sanford), Sa | anford, NC - 27332, | Run: 8.5 S 0 Apr 20 2 | 021 Print: 8. | 500 S Apr 20 |) 2021 MiTek Industries, Inc. Sat Apr 24 10:49:48 | Page: 2 |

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 9)
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * 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.
- 14) Ceiling dead load (5.0 psf) on member(s). 9-11, 41-42, 9-42; Wall dead load (5.0psf) on member(s).34-41, 11-21
- 15) _{N/A}

16) N/A

- 17) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 18) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 19) Attic room checked for L/360 deflection.
- LOAD CASE(S) Standard

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:48 ID:WHOxV3AtIT52?oXCabpZZPzNyFw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

818 Soundside Road Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | D02 | Attic | 3 | 1 | Job Reference (optional) | l45815335 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:50 ID:BZvAG6ahRc9pMNFRkttE7MzNyCp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



1-3-0

Plate Offsets (X, Y): [4:0-3-0,0-2-12], [5:0-3-0,0-2-12], [6:0-3-2,0-2-4], [9:0-3-8,0-1-4], [11:Edge,0-1-8], [30:Edge,0-3-8]

Scale = 1:82.7

| Loading | (pst | Spacing | | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|--|---|---|-----------------------------|----------|---|--|---|--|---|--|--|--|--|---|---|
| TCLL (roof) | 20. |) Plate Grip | DOL | 1.15 | | TC | 0.59 | Vert(LL) | -0.21 | 15-17 | >999 | 240 | MT20 | 244/190 | |
| Snow (Pf) | 20. | Lumber DC | DL | 1.15 | | BC | 0.97 | Vert(CT) | -0.40 | 15-17 | >664 | 180 | MT20HS | 187/143 | |
| TCDL | 10. | Rep Stress | Incr | YES | | WB | 0.96 | Horz(CT) | 0.06 | 11 | n/a | n/a | | | |
| BCLL | 0. |)* Code | | IRC201 | 5/TPI2014 | Matrix-MSH | | Attic | -0.13 | 14-27 | >999 | 360 | | | |
| BCDL | 10. |) | | | | | | | | | | | Weight: 276 II | o FT = 20% |) |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS | 2x6 SP No.2 *E> 2400F 2.0E 2x4 SP No.1 *E> 2x4 SP No.3 *E> 11-9:2x4 SP No.3 2x4 SP No.3 | cept* 5-7,7-10:2 cept* 27-14:2x4 cept* 3-6:2x6 SF 2 | x6 SP SP No.2 ? No.2, | BC | DT CHORD | 29-30=0/745, 28-2 26-28=0/1229, 24 19-22=0/3627, 18 13-16=0/2906, 12 25-27=-604/0, 23- 21-23=-2565/0, 2(17-20=-2565/0, 1! 14-15=-1026/0 | 29=-185/ -26=0/25 -19=0/35 -13=0/14 -25=-201 0-21=-25 5-17=-22 | 1046, 64, 22-24=0/ 94, 16-18=0/ 52, 11-12=-3 0/0, 65/0, 00/0, | /3509, /3594, 31/208, | Thi load over the second second | s truss h d of 12.0 rhangs r vide ade plates ar plates ar s truss h rd live lo | as bee psf or non-co equate re MT2 re 3x5 as bee | In designed for 1.00 times flat ncurrent with or drainage to pre 0 plates unless MT20 unless of on designed for acconcurrent with | greater of mir roof load of 2 ther live loads vent water po otherwise indic a 10.0 psf bo b any other liv | n roof live 0.0 psf on 5. onding. dicated. ated. wtom |
| BRACING TOP CHORD | Structural wood 5-2-9 oc purlins, 2-0-0 oc purlins | sheathing directl except end vert 6-0-0 max.): 4-5 | y applied icals, and | or W | WEBS 2-29=-654/1115, 2-28=-83/754, 10) * This tru 27-28=-308/318, 3-27=-118/830, on the bc 12-14=-332/69, 8-14=0/673, 3-31=-1519/214, 3-06-00 t 6-31=-1702/132, 9-12=0/1210 c bccrd on | | | | | | | | een designed fo rd in all areas v 0-00 wide will f | r a live load c where a rectain it between the | of 20.0psf ngle e bottom |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. Construction Construction | | | | | | | | | mber(s). 6-8, | 3-31, | | | | |
| WEBS | 1 Row at midpt | 2-30 | | | | 25-26=-1169/0, 13 | 3-15=-10 | 14/0, 24-25=0 | 0/661, | 6-3 | 1; Wall | dead lo | oad (5.0psf) on | member(s).3- | -27, 8-14 |
| JOINTS | 1 Brace at Jt(s): 15, 23, 17, 31 | 25, | | | : | 1/0, 34/0, | 12) Bot cho | tom cho rd dead | rd live load (5 | load (40.0 psf) 5.0 psf) applied | and additiona only to room. | l bottom . 25-27, | | | |
| FORCES | (size) 11=0- Max Horiz 30=-3 Max Uplift 29=-1 Max Grav 11=20 30=26 (lb) - Maximum (Tension | 11=0-5-8, 29=0-5-8, 30=0-3-8 Horiz 30=-355 (LC 10) Uplift 29=-1084 (LC 48), 30=-371 (LC 15) Grav 11=2056 (LC 48), 29=646 (LC 10), 30=2642 (LC 48) Maximum Compression/Maximum rsion NOTES Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 4-4-15 to 7-4-15, Interior (1) | | | | | | | | | vide me ring plat t 29. | chanic e capa | al connection (I ble of withstan | ARO | russ to uplift at |
| TOP CHORD | 1-2=-144/89, 2-3 32-33=-1916/17 34-35=-1883/18 3-4=-465/139, 4 36-37=-343/122 5-38=-343/122, 6-7=-1296/163, 8-39=-1565/124 40-41=-1881/0, 9-11=-1968/24, | 2=-1952/174, 7, 33-34=-1904/1 2, 3-35=-1736/20 36=-343/122, 37-38=-343/122, -6=-451/160, 7-39=-1493/139, 8-40=-1854/0, 9-41=-2048/0, 9- -30=-160/59 | 81, 19, 10=0/57, | 3) 4) | 7-4-15 to 9-5 23-2-6 to 29- cantilever lef right expose for reactions DOL=1.60 TCLL: ASCE DOL=1.15 P Lumber DOL Fully Exp.; C Unbalanced design. | 5-0, Exterior (2) 9 -4-3, Exterior (2) 2 ft and right expose d;C-C for member shown; Lumber [-7-10; Pr=20.0 ps late DOL=1.15); F =1.15 Plate DOL: t=1.10 snow loads have | 5-0 to 23 5-0 to 23 29-4-3 to 23 ed; end v rs and for DOL=1.6(2f (roof liv 2f=20.0 p =1.15); C been cor | -2-6, Interior -2-6, Inter -2-6, Interior -2-6, Interior | (1) (1) RS per now: xp B; his | | Contraction of the second seco | N. N | SE 458 SE 458 SNGIN Ap | AL 44 JOHNS JOHNS | Annun Ann |

818 Soundside Road

Edenton, NC 27932

Continued on page 2 Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2/2/2/ BE-VRE 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

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | D02 | Attic | 3 | 1 | Job Reference (optional) | 145815335 |

- 14) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 30. This connection is for uplift only and does not consider lateral forces.
- 15) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 17) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

18) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:50 ID:BZvAG6ahRc9pMNFRkttE7MzNyCp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|--------------|-----|-----|--------------------------------|-----------|
| 21040035-A | D03 | Attic Girder | 1 | 4 | Job Reference (optional) | 145815336 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:51 ID:ZE_K?yhTDOCzsG74U8WGjGzNyA4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

20-9-12 25-0-12 19-9-7 22-2-11 9-4-11 31-1-0 <u>29-9</u>-0 7-4-4 17-8-5 3-8-4 2-0-7 2-1-3 1-0-5 3-8-4 3-8-0 8-3-9 2-10-1 4-8-4 1-4-0 8x10= 8x10= 1-4-15 PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED 4 ¢∄ 50051 5 兪 FACE MOUNT HANGER (SPECIFIED BY OTHERS) IS REQUIRED FOR LOADS REPORTED IN NOTES. FACE MOUNT HANGER SHALL BE 4x6💊 4x6💊 × × 12-0-0 4x6 6 15 2-6-0 3x5、 Ø ATTACHED WITH A MINIMUM OF 0.148"x 3" NAILS PER HANGER MANUFACTURER SPECIFICATIONS. 44 3 � 10¹² ß 7 0-9-6 Δ Ð &8 -9-42 40 43 41 45 *⁹ 3x5 -3x 48⁹² ∉ 10 5x8、 12-0-0 52 8-2-0 4x5 8-11-1 8-11-1 12 4x5、 13 4-2-, 46 25 329 38 33 ⊠ 37 36 34 32 30 2726 24 21 20 19 18 17 3x5= 3x5= 3x5= 3x5= 5x8= 4x5= 3x5= 3x5= 5x8= 3x6 II THDH26-2 4x8 II 3x5= 3x5 II 3x5= 3x5= 3x10 🛛 3x5= 10-0-0 8-9-0 3x5= 16-11-0 12-11-4 15-10-305= 20-9-12 7-6-0 4-2-12 7-4-4 -11 4-2-12 3-1-8 0-1-12 1-3-0 020

Scale = 1:92.1

Plate Offsets (X, Y)· [4:0-8-4 0-4-0] [5:0-8-4 0-4-0] [18:0-4-0 0-1-8] [22:0-2-8 0

| | (,, ,). [4.0 | -0-4,0-4-0], | [5.0-0-4,0-4-0], [10.0 | 5-4-0,0-1-0], [22.0-2-0, | 0-2-0] | | | | | | | | | |
|---|---|--|--|--|---|---|---|---|---|--|---|--|--|--|
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 6-0-0 1.15 1.15 NO IRC2015/TPI2014 | CSI TC BC WB Matrix-MSH | 0.56 0.59 0.91 | DEFL Vert(LL) Vert(CT) Horz(CT) Attic | in -0.08 -0.14 0.02 -0.06 | (loc) 28-29 28-29 18 22-35 | l/defl >999 >999 n/a >999 | L/d 240 180 n/a 360 | PLATES MT20 Weight: 1402 | GRIP 244/190 2 lb FT = 20 | % |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD JOINTS | 2x6 SP N 2x6 SP N 2x4 SP N 2x4 SP N 2-0-0 oc verticals (Switcher Rigid ceil bracing. 1 Brace a 39, 14, 1, 42, 33, 2: 44, 46, 47 | 0.2 0.2 *Excep 0.3 *Excep 0.3 purlins (6-0 d from sheet ing directly at Jt(s): 5, 40, 41, 4, 3, 31, 25, 7 | t* 35-22:2x4 SP No.: t* 39-7:2x4 SP No.2 -0 max.), except en eted: Spacing > 2-0-0 applied or 6-0-0 oc | BOT CHORD 2 d)). WEBS | 37-38=-862/970, 3 34-36=0/2552, 32- 27-30=0/7926, 26- 21-24=0/4756, 20- 19-20=-1102/1679 17-18=-131/46, 16 33-35=-1105/0, 31 29-31=-5703/0, 28 25-28=-5703/0, 23 22-23=-485/1089 2-37=-3785/188, 2 35-36=-927/248, 3 3-39=-115/1179, 2 8-22=-295/1346, 3 40-42=-1783/0, 40 41-43=-1783/0, 40 | 6-37=0/ 34=0/58 27=0/75 21=-123 ,18-19= -17=-13 -33=-47 -29=-57 -25=-36 -36=0/2 5-39=-3 0-22=0/ 9-42=-1 -43=-18 -45=-18 | 1840, 1840, 26, 30-32=0/ 03, 24-26=0/ 6/1617, -669/514, 1/46, 55/0, 03/0, 51/0, 380, 58/1223, 731, 783/0, 57/0, 57/0, 57/0, | 7872, 7503, | 2) 4-p (0.' Top sta Boti sta We Atta cer Atta cer 3) All exc CA pro | ly truss t 131"x3") o chords ggered a ttom chor ggered a b connet ach TC w hter of the loads are cept if noi SE(S) se vided to | o be con nails a connee (t 0-9-0 rds cor (t 0-4-0 cted as (/ 1/2") e memi e consi ted as ection. distribu | nnected toget s follows: cted as follows oc, 2x4 - 1 rov nnected as follows oc, 2x4 - 1 rov ; follows: 2x4 - diam. bolts (AS ber w/washers diam. bolts (AS ber w/washers diam. bolts (AS ber w/washers dered equally front (F) or bac Ply to ply conr ute only loads | her with 10d : 2x6 - 2 row w at 0-9-0 oc yws: 2x6 - 3 w at 0-9-0 oc 1 row at 0-9 STM A-307) at 4-0-0 oc. STM A-307) at 4-0-0 oc. applied to al k (B) face ir rections have noted as (F) | /s >: rows : :0 oc. in the in the I plies, 1 the LOAD e been or (B), |
| FORCES TOP CHORD | (size) Max Horiz Max Uplift Max Grav (lb) - Max Tension 1-48=-28i 2-49=-25i 3-4=-260 50-51=-2: 5-6=-243i 7-8=-303i 10-52=-3i 11-12=0/i | 16=3-5-8, 37=0-5-8, 38=-1057 16=-3230 28), 37=-7 8) 16=-174 (18=14061 44), 38=44 44), 38=44 457/182, 2-3 7/394, 4-50 279/336, 5- 6/478, 6-7= 7/131, 8-9= 669/0, 11-5 3620, 12-13 170, 14-16= | 17=3-5-8, 18=3-5-8, 38=0-3-8 (LC 10) (LC 28), 17=-1805 (762 (LC 57), 38=-166 LC 13), 17=-377 (LC (LC 28), 37=2687 (1 047 (LC 28) pression/Maximum 49=-2606/171, i=-3765/0, i=-2279/336, 51=-2279/34, 51=-2 | NOTES 1) N/A 9/0, 854, /209 | 7-45=-1870/0, 18-4 14-47=-3638/40, 1 4-40=-61/233, 40-4 5-41=-177/158, 4-4 21-22=0/3464, 33- 21-23=-3542/0, 32 23-24=0/1965, 31- 24-25=-2041/0, 30 25-27=0/1019, 29- 11-19=0/3173, 19- 22-46=0/3363, 11- 43-44=0/73, 6-45= 12-18=-1829/0, 13 | 47=-360: -37=-27: 44=-3/25 42=0/21 34=-313 -33=0/1! 32=-110 -31=-70, 30=-312 22=-736 46=0/37 -89/316, -47=0/92 | 9/40, 5/280, 4, 5-44=-1/2 1, 34-35=0/19 4/0, 516, 6/0, 324, 9, 27-28=-6 /1045, 02, 11-18=-9 10-46=-491, 22, 17-47=0/8 | 79, 927, 11/0, 9512/0, 70, 862 | 4) Uni | balanced s design. | I roof li | ve loads have | AROX SOUNT AL 344 VIEER.C | ered for |

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-74/3 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITER® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



April 26,2021

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|--------------|-----|-----|--------------------------------|-----------|
| 21040035-A | D03 | Attic Girder | 1 | 4 | Job Reference (optional) | 145815336 |

- 5) Wind: ASCE 7-10: Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 6) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this 8) design.
- 9) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 10) Provide adequate drainage to prevent water ponding.
- 11) All plates are 2x4 MT20 unless otherwise indicated.
- 12) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web). 13) Gable studs spaced at 2-0-0 oc
- 14) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 15) * 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.
- 16) Ceiling dead load (5.0 psf) on member(s). 7-8, 39-42, 40-42, 40-43, 41-43, 41-45, 7-45; Wall dead load (5.0psf) on member(s).35-39, 8-22
- 17) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 33-35, 31-33, 29-31, 28-29, 25-28, 23-25, 22-23
- 18) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 762 lb uplift at joint 37, 3230 lb uplift at joint 16 and 1805 lb uplift at ioint 17.
- 19) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 38. This connection is for uplift only and does not consider lateral forces.
- 20) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 21) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 22) Use MiTek THDH26-2 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent at 28-1-12 from the left end to connect truss(es) to front face of bottom chord.
- 23) Fill all nail holes where hanger is in contact with lumber. 24) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft) Vert: 1-4=-180, 4-5=-180, 5-7=-180, 7-8=-210, 8-14=-180, 14-15=-180, 16-38=-60, 22-35=-90, 39-42=-30, 40-42=-30, 40-43=-30, 41-43=-30, 41-45=-30, 7-45=-30 Drag: 35-39=-30, 8-22=-30

- Concentrated Loads (lb)
- Vert: 19=-1475 (F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling 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 sand truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Run: 8.5.S.0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:51 ID:ZE_K?yhTDOCzsG74U8WGjGzNyA4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|--------------|-----|-----|--------------------------------|-----------|
| 21040035-A | D04 | Attic Girder | 1 | 4 | Job Reference (optional) | 145815337 |

| Carter Compone | ents (Sanford), Sanford, No | C - 27332, | | Run: 8.5 S 0 Apr 20 2021 | Print: 8.500 S Apr 20 20 | 21 MiTek Industries, In | c. Sat Apr 24 10:49:53 | Page: 1 |
|--------------------------|---|--|--------------------------------------|--|---|--|--|--|
| | | | 1-8-4 | ID:q1tHGb1k32BLSCIHyR | 18-2-11 | 0Hq3NSgPqnL8w3u11 | (DGKWICD0I/J4ZJC?f | |
| | | 0- | 5-4 3-3-95-4-11 | 13-8-5 16 | <u>-2-0</u> <u>-20-9-12</u> | 25-9-0 27-1 | -0 H | |
| | | 0- | 5-4 1-7-5 2-1-3 1-3-0 | 8-3-9 2-5 | 0-1-12 0-1-12 | 4-11-4 1-4- | Ó | |
| | | | 10 ¹² 5x6= | 5x6= | 1-10-15 PLY-1 | TO-PLY CONNECTIO | N REQUIRES THAT AN API | PROVED |
| | | ot T o | 5x8 ¢ 4 3 | | FACE LOAD | MOUNT HANGER (S S REPORTED IN NO | SPECIFIED BY OTHERS) IS TES. FACE MOUNT HANG | REQUIRED FOR ER SHALL BE |
| | | 2-0-2 | 5x8 ¢ | 2-0-0 | 3×10 _s ATTA | CHED WITH A MININ JFACTURER SPECIF | IUM OF 0.148"x 3" NAILS PE FICATIONS. | ER HANGER |
| | | | 2 | 33 | 4x6. | | | |
| | | | ₽ JI | | 3x | 8* | | |
| | | 0-0 | er /// | 0 | \$ 37 | 9 | | |
| | | 44 | | 8-2- | | A A | | |
| | | 8-5 8-5 7-6-1 | | | | 4x5 | | |
| | | | | | | 10 | $^{-}$ | |
| | | | | | | | | |
| | | $\perp \perp \perp 32$ | ³¹ 29 27 31 29 27 | 25 22 20 191 | 6 15 14 | 13 2x4 | . ←⊥ | |
| | | (MT0) | 6x8= 3x6= 4x5= | 3x6= 2x4 II 5x6= | 5x8= 8x10= | 2 | | |
| | | 101121 | 3_{-1}^{-10} | .0= 14-0-0 16-4 = 11-2-0 13-8-0 1 | 16-3-12 6-2-0 | | | |
| | | | | 0 10-1-12 12-5-0 14-1 | 1-0 19-10-8 22- | -6-1 25-9-0 | | |
| Scale = 1:86.6 | | | 1-8-4 1-3-0 1-3-0 0-1-12 1-3-0 1- | -0-4 ¹⁻⁰⁻⁴ 0-4-0 | 1-3-0 3-6-12 2- ⁻ 0-1-12 | 7-9 3-2-15 | | |
| Plate Offsets (| (X, Y): [2:0-3-8,0-1-12] |], [4:0-3-0,0-2-12], [5:0 | 0-3-0,0- <u>2-1</u> 2], [14:0-5-0, | ,0-4-8], [17:0-2-0,0-2-8], [3 | 1 ⁰ .0-3-8,Edge], [34:0- | 3-8,0-3-0] | | |
| Loading | (psf) | Spacing | 6-0-0 | csi | DEFL in | (loc) l/defl l | u/d PLATES GR | IP |
| TCLL (roof) Snow (Pf) | 20.0 20.0 | Plate Grip DOL Lumber DOL | 1.15 1.15 | TC 0.73 BC 0.98 | Vert(LL) -0.22 Vert(CT) -0.42 | 17-18 >999 2 17-18 >731 1 | 40 MT20 244 80 MT20HS 187 | 4/190 7/143 |
| TCDL | 10.0 | Rep Stress Incr | NO | WB 0.89 | Horz(CT) 0.03 | 12 n/a i | 1/a | |
| BCLL BCDL | 0.0* 10.0 | Code | IRC2015/1PI2014 | Matrix-MSH | Attic -0.11 | 17-30 >999 3 | Weight: 1230 lb FT | = 20% |
| LUMBER | | • | BOT CHORD | 31-32=-13213/0, 29-31=-1 | 4209/0, | 3) All loads are c | onsidered equally applied | to all plies, |
| TOP CHORD | 2x6 SP No.2 2x6 SP No.2 *Excep | t* 30-17·2v4 SP No 1 | | 27-29=-5163/897, 25-27=0 22-25=0/8111, 20-22=0/10 |)/5010, 1521. | except if notec CASE(S) secti | I as front (F) or back (B) fa | ace in the LOAD have been |
| WEBS | 2x4 SP No.3 *Excep | ot* 2-31:2x4 SP 2400F | | 19-20=0/13535, 16-19=0/1 | 3535, | provided to dis | stribute only loads noted a | s (F) or (B), |
| | 2.0E, 3-6,32-1,29-30,16-17 | 7,29-28,16-18,27-28,2 | 20-1 · | 13-14=0/5418, 12-13=-47/ | 2092, 113, | 4) Unbalanced ro | of live loads have been or | onsidered for |
| BRACING | 8,27-26,20-21,2-34,3 | 30-32:2x4 SP No.2 | | 28-30=0/12848, 26-28=-29 24-26=-5425/0, 23-24=-54 | 0/5181, 25/0, | this design. 5) Wind: ASCE 7 | '-10; Vult=130mph (3-seco | and gust) |
| TOP CHORD | 2-0-0 oc purlins (6-0 | -0 max.), except end | 1 | 21-23=-5425/0, 18-21=-99 17-18=-10744/0 | 05/0, | Vasd=103mph | ; TCDL=6.0psf; BCDL=6.0 | 0psf; h=25ft; |
| | verticals (Switched from shee | eted: Spacing > 2-0-0) | WEBS | 30-31=0/2742, 2-30=0/126 | 64, | zone; cantileve | er left and right exposed ; | end vertical left |
| BOT CHORD | Rigid ceiling directly | applied or 10-0-0 oc | (| 15-17=-599/167, 7-17=0/2 6-33=-2254/140, 10-13=0/ | 277, 3-33=-3211/0, 5200, | DOL=1.60 | sed; Lumber DOL=1.60 pl | late grip |
| | 6-0-0 oc bracing: 31 | -32,29-31,27-29. | - | 4-33=0/1061, 5-33=-446/1 16-17=-747/1935. 28-29=- | 70, 29-30=0/5250, 6148/0. | TCLL: ASCE 7 DOI =1 15 Pla | '-10; Pr=20.0 psf (roof live te DOI =1 15); Pf=20.0 ps | load: Lumber f (flat roof snow: |
| JOINTS | 1 Brace at Jt(s): 1, 4, 5, 10, 33, 28, 18, | | | 16-18=-1628/1370, 27-28= | =0/4547, 5020/0 | Lumber DOL= | 1.15 Plate DOL=1.15); Ca | ategory II; Exp B; |
| PEACTIONS | 26, 21 (size) 12-0-5-8 | 32-0-5-8 | - | 20-21=-98/3111, 25-26=0/ | 5950/0, 5860, | 7) Unbalanced si | now loads have been con: | sidered for this |
| REACTIONS | Max Horiz 32=-1186 | (LC 10) | | 21-22=-4246/0, 24-25=-17 22-23=-2/990, 30-34=0/39 | 70/0, 45, 2-34=-14053/0, | design. 8) This truss has | been designed for greate | r of min roof live |
| FORCES | Max Grav 12=6942 ((lb) - Maximum Com | (LC 28), 32=6483 (LC pression/Maximum | 3) | 30-32=0/12971, 9-14=0/56 14-17=-6920/367, 9-17=-4 | ;89, 868/0, | load of 12.0 ps overhangs nor | or 1.00 times flat roof loan to the state of | ad of 20.0 psf on e loads. |
| TOP CHORD | Tension 1-2=-753/228 2-3=- | 3615/0 3-4=-2485/74 | 1 NOTES | 9-13=-2260/0 | | <u>j</u> | "TH CAR | Sill. |
| | 4-35=-2372/402, 35- | -36=-2372/402, | 1) _{N/A} | | | \sim | NOP EESSIA | -IN'IL |
| | 6-7=-3163/52, 7-8=-4 | 4533/0, 8-37=-4659/0 | , 2) 4-ply truss to | be connected together w | th 10d | (A | MANY | ANA T |
| | 9-37=-4926/0, 9-10= 10-12=-6846/0, 32-3 | =-6352/0, 10-11=0/170 34=-14248/0, |), (0.131"x3") r | nails as follows: | 2 10140 | E | SEAL | |
| | 1-34=-815/251 | | staggered at | 0-9-0 oc, 2x4 - 1 row at 0 | -9-0 oc. | E | 1581A | E E |
| | | | Bottom chore staggered at | ds connected as follows: 2 0-4-0 oc, 2x4 - 1 row at 0 | x6 - 3 rows -9-0 oc. | | +30++ | 1 E - |
| | | | Web connec Attach TC w | ted as follows: 2x4 - 1 row / 1/2" diam_bolts (ASTM A | at 0-9-0 oc. | 1 | TA EN S | 2123 |
| | | | center of the | member w/washers at 4-(|)-0 oc. | 0 | OPAGINEE | NSIII |
| | | | center of the | member w/washers at 4-0 |)-0 oc. | | WEW JOH | in the second se |
| | | | | | | | April 26 | ,2021 |
| Continued on | nade 2 | | | | | | | |
| CONTINUED ON | | | | | | | | |



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|--------------|-----|-----|--------------------------------|-----------|
| 21040035-A | D04 | Attic Girder | 1 | 4 | Job Reference (optional) | 145815337 |

- 9) Provide adequate drainage to prevent water ponding.
- 10) All plates are MT20 plates unless otherwise indicated.
- 11) All plates are 3x5 MT20 unless otherwise indicated.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * 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.
- 14) Ceiling dead load (5.0 psf) on member(s). 2-3, 6-7, 3-33,
 6-33, 30-34; Wall dead load (5.0psf) on member
 (s).2-30, 7-17
- 15) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 28-30, 26-28, 24-26, 23-24, 21-23, 18-21, 17-18
- 16) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 17) Use MiTek THDH26-2 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent at 28-1-12 from the left end to connect truss(es) to back face of bottom chord
- 18) Fill all nail holes where hanger is in contact with lumber.
- 19) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (lb/ft) Vert: 1-2=-180, 2-3=-210, 3-4=-180, 4-5=-180, 5-6=-180, 6-7=-210, 7-10=-180, 10-11=-180,
 - 12-32=-60, 17-30=-90, 3-33=-30, 6-33=-30, 30-34=-30
 - Drag: 2-30=-30, 7-17=-30
 - Concentrated Loads (lb)
 - Vert: 14=-1537 (B)

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:53 ID:qTtHGbTk32BLSciHyReC1mzNy6U-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | D05 | Attic | 2 | 1 | Job Reference (optional) | 145815338 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:54 ID:Ozgls34yVjPGa_GRequNQjzO_DG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

April 26,2021

818 Soundside Road Edenton, NC 27932



| Scale = 1:93.3 | | 0-1-12 | 1-3-0 1-0-4 | 1-0-4 1- | .3-0 | |
|-----------------------|------------------------------------|----------------------|------------------|------------------|---|-------|
| Plate Offsets (X, Y): | [2:0-3-8,0-2-4], [4:0-3-4,0-2-12], | [5:0-3-12,0-2-12], [| 16:0-2-4,0-2-8], | [28:0-3-0,0-3-0] | , [32):0 1 -31 <u>8</u> ,0-2 | 2-12] |

| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2015 | 5/TPI2014 | CSI TC BC WB Matrix-MSH | 0.75 0.99 0.99 | DEFL Vert(LL) Vert(CT) Horz(CT) Attic | in -0.25 -0.49 0.04 -0.13 | (loc) 16-17 16-17 11 16-28 | l/defl >999 >618 n/a >999 | L/d 240 180 n/a 360 | PLATES MT20 Weight: 281 lb | GRIP 244/190 FT = 20% | |
|---|---|---|--|--|--|---|--|---|---|--|---|--|---|---|
| LUMBER TOP CHORD BOT CHORD WEBS | 2x6 SP No.2 2x4 SP No.2 *Excep 2x4 SP No.3 *Excep 3-6,30-1,27-28,15-10 7,25-24,18-19,28-30 | ut* 30-14:2x4 SP No. 1* 2-29:2x4 SP No.1, 6,27-26,15-17,25-26, 1,2-32:2x4 SP No.2 | BO 1 18-1 | DT CHORD 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 19-30=-3508/140, 2 5-27=-1038/501, 2 10-23=0/2442, 18-2 4-15=-176/2725, 1 2-13=-162/2689, 1 6-28=0/3132, 24-2 | 27-29=-3 23-25=0 20=0/29 3-14=-1 1-12=-1 26=-228 | 3681/123, /1539, 03, 15-18=0/3 176/2725, 19/30, /1015, | 3169, | 4) Untides 5) Pro 6) All (7) This cho | oalanceo ign. vide ade olates ar s truss h rd live lo | d snow equate re 3x5 as bee pad no | loads have bee drainage to prev MT20 unless oth an designed for a nconcurrent with | n considered for rent water pon- nerwise indicate a 10.0 psf botto any other live | or this ding. ed. om loads. |
| BRACING TOP CHORD | Structural wood she 5-4-6 oc purlins, exe 2-0-0 oc purlins (5-6 | athing directly applie cept end verticals, ar 5-0 max.): 4-5. | d or 1d WE | 1 1 EBS 2 | 2-24=-1618/0, 21- 9-21=-1618/0, 17- 6-17=-2201/252 28-29=0/324, 2-28= | 22=-16 19=-23 0/3406 | 18/0, 56/0, , 13-16=0/12(| 0, | 8) * Th on t 3-0 cho | nis truss the botto 6-00 tall rd and a | has be om cho by 2-0 iny oth | een designed for rd in all areas wi 00-00 wide will fit er members. | a live load of 2 here a rectang between the b | 20.0psf le pottom |
| WEBS WEBS JOINTS | Rigid ceiling directly bracing. Except: 3-9-0 oc bracing: 19 3-10-0 oc bracing: 1 10-0-0 oc bracing: 2 1 Row at midpt 2 Rows at 1/3 pts 1 Brace at Jt(s): 31, 26, 17, 24, 19 (size) 11=0-5-8 | applied or 2-2-0 oc -24 7-19, 16-17 6-28, 24-26 2-32 1-30 | | | -16=0/622, 3-31=- -31=0/318, 5-31=- +12=-110/158, 12- 0-12=0/1238, 27-2 6-27=-1743/0, 15- 5-26=0/1243, 17-1 4-25=-1407/0, 18- 3-24=0/1571, 19-2 2-23=-744/0, 20-2 8-32=-42/1041, 26 2-22=07/0 | 943/0, 6 116/81, 16=-160 28=0/17 17=-646 8=-211 19=-159 20=-103 1=-52/4 5-30=0/3 | 6-31=-643/14 9-16=-502/2 09/341, 11, 15-16=-79 6/129, /198, 9/471, 3/125, 41, 3543, | 8, 52, 9/667, | 9) Cei 6-3 (s).: 10) Bot cho 24-: 11) This Inte R80 | ling dea 1, 28-32 2-28, 7- ⁻ tom cho rd dead 26, 22-2 s truss is rnationa 02.10.2 a | d load ; Wall 16 rd live load (4, 21-2 s desig I Resid and ref | (5.0 psf) on mer dead load (5.0p load (40.0 psf) a 5.0 psf) applied o 22, 19-21, 17-19 ned in accordan dential Code sec erenced standar | nber(s). 2-3, 6- sf) on member nd additional k only to room. 2 , 16-17 ce with the 20' tions R502.11 d ANSI/TPI 1. | 7, 3-31, pottom 6-28, 15 .1 and |
| | Max Horiz 30=-378 (Max Grav 11=1518) | LC 10) (LC 43), 30=2026 (L0 | NO C 43) 1) | DTES Unbalanced | roof live loads have | e been d | considered fo | r | | | 6 | WITH CA | RO | |
| ORCES | (II) - Maximum Com Tension 1-2=-207/121, 2-3=- 4-33=-800/168, 33-3 5-34=-800/168, 5-6= 7-35=-1229/24, 8-35 9-36=-1420/0, 9-37= 10-11=-1481/0, 30-3 1-32=-217/149 | pression/Maximum 1079/134, 3-4=-841/: 34=-800/168, 930/211, 6-7=-941/ 5=-1287/9, 8-36=-130 1456/0, 10-37=-159 32=-3979/0, | 2) 234, 147, 147, 14/0, 14/0, 3) | this design. Wind: ASCE Vasd=103mp Cat. II; Exp B zone and C-0 26-2-6 to 30- cantilever left right exposed for reactions DOL=1.60 TCLL: ASCE DOL=1.15 PI Lumber DOL Fully Exp.; C | 7-10; Vult=130mpl h; TCDL=6.0psf; E ; Enclosed; MWFF C Exterior (2) 8-4-1 10-7, Exterior (2) 3 and right exposed ;C-C for members shown; Lumber DC 7-10; Pr=20.0 psf ate DOL=1.15); Pf: =1.15 Plate DOL=' =1.10 | n (3-sec CDL=6 S (enve 5 to 26- 0-10-7 ; end v and for DL=1.60 (roof liv =20.0 p 1.15); C | cond gust) .0psf; h=25ft; lelope) exteric .2-6, Interior (to 33-10-7 zo rertical left an ces & MWFR) plate grip e load: Lumb sf (flat roof sr ategory II; Ex | ; or (1) one; dd SS er now: cp B; | | Continue | Later Billing | SEA 458 NOREW J | L 1L 44 EEER. 50 0HNS | And Annun and Annu Annu Annu Annu Annu Annu Annu An |

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2/2/2/ BE-VRE 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

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | D05 | Attic | 2 | 1 | Job Reference (optional) | 145815338 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:54 ID:Ozgls34yVjPGa_GRequNQjzO_DG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

 Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------------------|-----|-----|--------------------------------|-----------|
| 21040035-A | E01 | Common Supported Gable | 1 | 1 | Job Reference (optional) | 145815339 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:55 ID:OAsSIEFCwkxfHOUAoKWM5nzNyMG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:31.1

Plate Offsets (X, Y): [2:0-3-8,Edge], [6:0-3-8,Edge]

| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2015 | 5/TPI2014 | CSI TC BC WB Matrix-MP | 0.05 0.03 0.04 | DEFL Vert(LL) Vert(CT) Horz(CT) | in n/a n/a 0.00 | (loc) - - 6 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 36 lb | GRIP 244/190 FT = 20% | |
|--|---|--|--|--|---|---|--|--|----------------------|-----------------------------|---------------------------------------|---------------------------------|---------------------------------|----------|
| LUMBER TOP CHORD BOT CHORD OTHERS WEDGE BRACING TOP CHORD BOT CHORD | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left: 2x4 SP No.3 Right: 2x4 SP No. Structural wood si 6-0-0 oc purlins. Rigid ceiling direc | 3 heathing directly applie tly applied or 10-0-0 o | 2) _{ed or} 3) c | Wind: ASCE Vasd=103mp Cat. II; Exp B zone and C-C exposed ; en members and Lumber DOL: Truss desigr only. For stu see Standard or consult qu | 7-10; Vult=130mpł h; TCDL=6.0psf; E ; Enclosed; MWFR Corner (3) zone; d vertical left and ri f forces & MWFRS =1.60 plate grip DC led for wind loads i ds exposed to wind l ndustry Gable Er alified building des | n (3-sec SCDL=6 SS (envice cantilev ght exp for rea DL=1.60 n the pl d (norm nd Deta igner as | iond gust) .0psf; h=25ft; leope) exteriol rer left and rig loosed;C-C for ctions shown) ane of the tru al to the face ils as applicat s per ANSI/TF | pr ght ; uss), ble, PI 1. | LOAD | CASE(S) | Sta | ndard | | |
| REACTIONS | (size) 2=6-11 9=6-11 15=6-1 Max Horiz 2=85 (L Max Uplift 2=-17 (8=-102 11=-17 Max Grav 2=108 8=177 10=181 15=107 | -8, 6=6-11-8, 8=6-11-8 -8, 10=6-11-8, 11=6-1 -8 -C 13), 11=85 (LC 13) LC 10), 6=-1 (LC 11), (LC 15), 10=-106 (LC (LC 10), 15=-1 (LC 11) (LC 25), 6=107 (LC 1), (LC 29), 9=117 (LC 27 (LC 24), 11=108 (LC -4 (LC 1) | 3, 4) 1-8, 5) 14), 6) , 7) 25), 8) | TCLL: ASCE DOL=1.15 PI Lumber DOL Fully Exp.; C Unbalanced s design. This truss ha load of 12.0 p overhangs no Gable require Gable studs s | 7-10; Pr=20.0 psf ate DOL=1.15); Pf =1.15 Plate DOL=1 =1.10 snow loads have b s been designed fc osf or 1.00 times fla on-concurrent with s continuous botto spaced at 2-0-0 oc | (roof liv =20.0 p I.15); C een cor or greate at roof k other liv om chor | e load: Lumb sf (flat roof sr ategory II; Ex isidered for th er of min roof pad of 20.0 ps ve loads. d bearing. | er now: (p B; nis live sf on | | | | mmm | 990 <i>.</i> | |
| FORCES TOP CHORD | (lb) - Maximum Co Tension 1-2=0/26, 2-3=-62 4-18=-58/71, 4-19 5-6=-47/34, 6-7=0 | /57, 3-18=-75/66, =-58/71, 5-19=-75/66, //26 | 9) 10] | 1 his truss has chord live loa) * This truss h on the bottom 3-06-00 tall b chord and an | s been designed to d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide will y other members | or a 10.0 rith any for a liv where fit betw | o psr bottom other live load e load of 20.0 a rectangle veen the botto | ds.)psf om | | 0 | | OR TH CA | dirty | ette |
| BOT CHORD WEBS NOTES | 2-10=-46/74, 9-10 6-8=-28/74 4-9=-74/0, 3-10=- | =-28/74, 8-9=-28/74, 162/119, 5-8=-162/119 | 11) Э |) N/A | , | | | | | in the | | SEA 4584 | L 4 | with the |
| 1) Unbalanc this desig | ed roof live loads ha n. | ve been considered fo | r 12) 13) |) Beveled plate surface with t) This truss is o International R802.10.2 ar | e or shim required t russ chord at joint(designed in accord Residential Code s d referenced stand | to provi (s) 6. ance w sections dard AN | de full bearing ith the 2015 . R502.11.1 a ISI/TPI 1. | g nd | | | A A A A A A A A A A A A A A A A A A A | Apri | ER.50 0HN50 | A.U. |

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



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | E02 | Common | 4 | 1 | Job Reference (optional) | 145815340 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:56 ID:a0UB1BARKuAVZT10R3QxsWzNyMM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





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

Scale = 1:34.3

| Loading (psf) TCLL (roof) 20.0 Snow (Pf) 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 IRC2015/TPI2014 | CSI TC BC WB Matrix-MP | 0.14 0.14 0.06 | DEFL Vert(LL) Vert(CT) Horz(CT) | in 0.01 -0.01 0.00 | (loc) 6-9 6-9 4 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 32 lb | GRIP 244/190 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 BRACING TOP CHORD Structural wood shear 6-0-0 oc purlins. BOT CHORD Rigid ceiling directly a bracing. REACTIONS (size) 2=0-5-8, 4 Max Horiz 2=-85 (LC Max Uplift 2=-39 (LC Max Grav 2=318 (LC FORCES (Ib) - Maximum Comp Tension TOP CHORD 1-2=0/26, 2-13=-277/ 3-14=-216/81, 4-14=- BOT CHORD 2-6=-54/177, 4-6=0/1 WEBS 3-6=-15/154 NOTES 1) Unbalanced roof live loads have | athing directly applied applied or 10-0-0 oc 120-5-8 12) 14), 4=-39 (LC 15) 21), 4=318 (LC 1) pression/Maximum /73, 3-13=-216/81, -277/73, 4-5=0/26 177 been considered for | 4) Unbalanced design. 5) This truss ha load of 12.0 overhangs n 6) This truss ha chord live load of 12.0 overhangs n 6) This truss ha chord live load of 12.0 overhangs n 6) This truss ha chord and an an | snow loads have b as been designed for psf or 1.00 times fl on-concurrent with as been designed for ad nonconcurrent w has been designed in chord in all areas by 2-00-00 wide will by other members. IfTek connectors re- ting walls due to UF tion is for uplift only as designed in accord Residential Code ind referenced stan Standard | been cor or greate at roof lo other lin or a 10.0 vith any for a liv s where I fit betw ecomme PLIFT at and do Jance w sections dard AN | nsidered for the er of min roof bad of 20.0 ps re loads. 0 psf bottom other live loa e load of 20.0 a rectangle ween the botto anded to conn jt(s) 2 and 4. es not consid ith the 2015 i R502.11.1 a ISI/TPI 1. | his live sf on ds. Dpsf Dom ect ler nd | | |) | WITH CA | ROLAN |

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10



Page: 1



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------------------|-----|-----|--------------------------------|-----------|
| 21040035-A | E03 | Common Supported Gable | 2 | 1 | Job Reference (optional) | 145815341 |

-0-8-0

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

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:56 ID:aH0cb?O5K6K565qHx7Dx26zNyM5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



| | 4-0-0 | |
|--|-------|--|
| Scale = 1:28.3 | | |
| Plate Offsets (X, Y): [2:0-3-8,Edge], [4:0-3-8,Edge] | | |

| Plate Offsets (| (A, T): [2:0- | -3-8,⊏age], | [4:0-3-8,⊏0ge] | | | | | | | | | | | | |
|---|---|---|--|---------------------------------------|--|---|---|---|--|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|---|
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC20 | 15/TPI2014 | CSI TC BC WB Matrix-MP | 0.04 0.05 0.01 | DEFL Vert(LL) Vert(CT) Horz(CT) | in n/a n/a 0.00 | (loc) - - 4 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 20 lb | GRIP 244/190 FT = 20% | , 0 |
| LUMBER TOP CHORD BOT CHORD OTHERS WEDGE BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP N 2x4 SP N 2x4 SP N Left: 2x4 Right: 2x4 Structura 4-0-0 oc Rigid ceil bracing. (size) Max Horiz | 0.2 0.2 0.3 SP No.3 4 SP No.3 I wood she purlins. ing directly 2=4-0-0, 1 7=4-0-0, 1 2=55 (LC | athing directly applie applied or 10-0-0 oc 4=4-0-0, 6=4-0-0, 11=4-0-0 13), 7=55 (LC 13) | d or | Truss desig only. For stu see Standar or consult qu TCLL: ASCE DOL=1.15 P Lumber DOL Fully Exp.; C Unbalanced design. This truss ha load of 12.0 overhangs n Gable requir Gable studs | ned for wind loads uds exposed to wind d Industry Gable Er ialified building des 7-10; Pr=20.0 psf late DOL=1.15); Pf =1.15 Plate DOL= tt=1.10 snow loads have b as been designed for psf or 1.00 times fit on-concurrent with es continuous bott spaced at 2-0-0 or | in the p d (norm nd Deta signer a: (roof liv =20.0 p 1.15); C ween cor or great at roof lo other liv om chor | ane of the tru al to the face is as applica s per ANS//TI e load: Lumb sf (flat roof sr ategory II; E) asidered for the er of min roof bad of 20.0 po re loads. d bearing. | uss ble, pl 1. ber now: xp B; his f live sf on | | | | | | |
| FORCES TOP CHORD BOT CHORD WEBS | Max Uplift Max Grav (lb) - Max Tension 1-2=0/26, 2-6=-27/5 3-6=-33/2 | 2=-37 (LC 7=-37 (LC 2=155 (LC (LC 1), 7= 1) timum Com , 2-3=-91/62 51, 4-6=-3/5 | : 14), 4=-43 (LC 15), : 14), 11=-43 (LC 15), C 1), 4=155 (LC 1), 6 :155 (LC 1), 11=155 upression/Maximum 2, 3-4=-91/62, 4-5=0, 51 |) (LC /26 | This truss ha chord live los on the botton 3-06-00 tall l chord and an 11) N/A | as been designed fr ad nonconcurrent v nas been designed n chord in all areas oy 2-00-00 wide wil ny other members. | or a 10.0 vith any for a liv where I fit betv |) psf bottom other live loa e load of 20.0 a rectangle veen the botto | nds. Opsf om | | | - Internet | NITH CA | ROL | |
| NOTES I) Unbalance this design 2) Wind: AS(Vasd=103 Cat. II; Ex zone and exposed ; members Lumber D | ed roof live I n. CE 7-10; Vu Bmph; TCDL p B; Enclosi C-C Corner end vertica and forces o OL=1.60 pla | loads have =6.0psf; B(ed; MWFR: (3) zone; c I left and rig & MWFRS ate grip DO | been considered for (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior antilever left and rigi ght exposed;C-C for for reactions shown; L=1.60 | r l | Beveled plat surface with This truss is International R802.10.2 a CAD CASE(S) | e or shim required truss chord at joint designed in accorc Residential Code and referenced stan Standard | to provi (s) 4, 11 lance w sections dard AN | de full bearing R502.11.1 a ISI/TPI 1. | g and | | Uninner | EN P | SEA 4584 SNGIN | L 14 EEFR.S OHNS | A manual and a manual a A manual and a manual |

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ENGINEERING BY A MITEK Affiliate 818 Soundside Road Edenton, NC 27932

April 26,2021

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | E04 | Common | 6 | 1 | Job Reference (optional) | 145815342 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:56 ID:pT0AMS4QDQAecFQUzNG3XqzNyMU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



| 2-0-0 | 4-0-0 |
|-------|-------|
| 2-0-0 | 2-0-0 |

| Plate Offsets (X, Y) | : [2:0-3-8.Edge] | . [4:0-3-8.Edge] |
|----------------------|------------------|------------------|

Scale = 1:29.4

| Fiale Oliseis (| (A, T). [2.0-3-8,Euge], [| [4.0-5-6,Euge] | | | | | | | | | | | |
|---|---|---|---|--|---|--|---|--|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2015 | 5/TPI2014 | CSI TC BC WB Matrix-MP | 0.03 0.05 0.03 | DEFL Vert(LL) Vert(CT) Horz(CT) | in 0.00 0.00 0.00 | (loc) 6-9 6-9 4 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 20 lb | GRIP 244/190 FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left: 2x4 SP No.3 Right: 2x4 SP No.3 Structural wood shea 4-0-0 oc purlins. Rigid ceiling directly a bracing. (size) 2=0-5-8, 4: Max Horiz 2=55 (LC 1 Max Uplift 2=-28 (LC Max Gray, 2=20 (LC | thing directly applied applied or 10-0-0 oc =0-5-8 13) 14), 4=-28 (LC 15) 1, 4=-20 (LC 1) | 4) 5) 6) 1 or 7) 8) | Unbalanced design. This truss ha load of 12.0 overhangs n This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar One RT7A M truss to bear This connect lateral forces | snow loads have b s been designed for on-concurrent with s been designed for ad nonconcurrent w nas been designed n chord in all areas by 2-00-00 wide will by other members. IiTek connectors re ing walls due to UF ion is for uplift only | een cor or great at roof le other li or a 10. vith any for a liv where i fit betw comme PLIFT at and do | nsidered for the er of min roof pad of 20.0 ps ve loads. 0 psf bottom other live loa e load of 20.0 a rectangle veen the botto ended to conn t jt(s) 2 and 4. | nis live sf on ds.)psf pm lect ler | | | | | |
| | (Ib) - Maximum Comp Tension | 7 3-4138/47 | 9) | This truss is International R802.10.2 a | designed in accord Residential Code s nd referenced stand | ance w sections dard AN | ith the 2015 8 R502.11.1 a NSI/TPI 1. | nd | | | | | |
| BOT CHORD WEBS | 1-2=0/26, 2-3=-138/4 4-5=0/26 2-6=-24/93, 4-6=0/93 3-6=-12/81 | 7, 3-4=-136/47, | LC | OAD CASE(S) | Standard | | | | | | | | 111. |
| NOTEO | 0 0- 12/01 | | | | | | | | | | | 11111 00 | E III |
| Unbalance this design Wind: AS0 Vasd=103 Cat. II: Ex | ed roof live loads have t n. CE 7-10; Vult=130mph (imph; TCDL=6.0psf; BC ρ Β: Enclosed: MWFRS | (3-second gust) CDL=6.0psf; h=25ft; | | | | | | | | Q | X | ORTH CA | HOL HATE |
| zone and exposed ; members Lumber D 3) TCLL: AS DOL=1.15 Lumber D Fully Exp. | C-C Exterior (2) zone; c end vertical left and rigi and forces & MWFRS fr OL=1.60 plate grip DOL CE 7-10; Pr=20.0 psf (rr 5 Plate DOL=1.15); Pf=2 OL=1.15 Plate DOL=1.1 ; Ct=1.10 | antilever left and right ht exposed;C-C for or reactions shown; =1.60 oof live load: Lumber 20.0 psf (flat roof sno 15); Category II; Exp | nt w: B; | | | | | | | THURS | P. I. | SEA 4584 | L HA |

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11 JULIA April 26,2021

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | E05 | Common | 2 | 1 | Job Reference (optional) | 145815343 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:57 ID:p8H0RuXZmvo_VTgDxQXuIYzNySM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



| 2-0-0 | 4-0-0 |
|-------|-------|
| 2-0-0 | 2-0-0 |

| Scale = 1:32.8 | |
|-----------------------|--------------------------------|
| Plate Offsets (X, Y): | [2:0-3-8.Edge], [4:0-3-8.Edge] |

| | (, .). [= | [o o o,_ugo] | | | | | | | | | | | |
|---|--|--|--|---|---|---|--|--|----------------------------|-------------------------------|---|---------------------------------|------------------------------------|
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018 | 5/TPI2014 | CSI TC BC WB Matrix-MP | 0.08 0.05 0.02 | DEFL Vert(LL) Vert(CT) Horz(CT) | in 0.00 0.00 0.00 | (loc) 6-14 6-14 4 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 20 lb | GRIP 244/190 FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalanc this desig 2) Wind: AS Vasd=107 Cat. II; Ex zone and exposed members Lumber E | 2x4 SP No.3 *Excep 2x4 SP No.2 2x4 SP No.3 Left: 2x4 SP No.3 Right: 2x4 SP No.3 Structural wood shee 4-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=0-1-8, 2 Max Horiz 1=-57 (LC Max Uplift 1=-18 (LC 4=-30 (LC Max Grav 1=68 (LC 4=186 (LC (lb) - Maximum Com Tension 1-2=-75/65, 2-3=-12 4-5=0/26 2-6=0/73, 4-6=0/73 3-6=-9/59 ed roof live loads have n. CE 7-10; Vult=130mph 3mph; TCDL=6.0psf; Bf cp B; Enclosed; MWFRS C-C Exterior (2) zone; c end vertical left and rig pOL=1.60 plate grip DO | athing directly applie applied or 10-0-0 oc 2=0-5-8, 4=0-5-8 (12) (10), 2=-50 (LC 14), (15), 2=50 (LC 28), (21) (25), 2=208 (LC 28), (21) (25), 2=208 (LC 28), (21) (25), 2=208 (LC 28), (21) (25), 2=208 (LC 28), (21) (26), 2=208 (LC 28), (21) (26), 2=208 (LC 28), (21) (26), 2=208 (LC 28), (21) (26), 2=208 (LC 28), (21), 2=2 | 3) 4) 5) 5 7) 7) 8) 9) 10 11 LC | TCLL: ASCE DOL=1.15 P Lumber DOL Fully Exp.; C Unbalanced design. This truss ha load of 12.0 overhangs n This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar Provide mec bearing plate One RT7A M truss to bear This connect lateral forcess) Beveled plat surface with) This truss is International R802.10.2 an | 7-10; Pr=20.0 ps late DOL=1.15); F =1.15 Plate DOL t=1.10 snow loads have is been designed psf or 1.00 times on-concurrent wit is been designed ad nonconcurrent is been designed ad nonconcurrent is been designed in chord in all area by 2-00-00 wide w ay other members hanical connectio a ti joint(s) 1. NTek connectors ing walls due to L ion is for uplift on c. e or shim required truss chord at joir designed in accoo Residential Code nd referenced sta Standard | f (roof liv Pf=20.0 p =1.15); C been cor for great flat roof li h other lir for a 10.1 with any d for a liv as where rill fit betw n (by oth recomme JPLIFT ai ly and dc d to provi tt(s) 1. rdance w s sections ndard AN | e load: Lumb sf (flat roof si ategory II; E) isidered for the er of min roof bad of 20.0 pi ve loads. D psf bottom other live loa e load of 20.0 pi ve loads. D psf bottom other live loa e load of 20.0 pi ve load of 20.0 pi ve loads of 20.0 pi ve loads of 20.0 pi ve load of 20.0 pi ve loads of 20.0 pi ve l | er now: cp B; his i live sf on ds. Dpsf om to nect d 4. der g | | Continue | A CONTRACT OF A | SEA 458 | L LL |

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11 JULIA April 26,2021

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | EJ01 | Jack-Open | 4 | 1 | Job Reference (optional) | 145815344 |

-1-4-0

1 - 4 - 0

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

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:57 ID:jLHNOaR2n8aiqbAOeurj9ezNyPv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

1-10-15

1-10-15

Page: 1



2x4 =

1-10-15

Scale = 1:24.8

| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2018 | 5/TPI2014 | CSI TC BC WB Matrix-MP | 0.12 0.04 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in 0.00 0.00 0.00 | (loc) 4-7 4-7 2 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 8 lb | GRIP 244/190 FT = 20% |
|---|--|---|---|--|---|--|---|----------------------------|--------------------------|-------------------------------|--------------------------|--------------------------------|------------------------------------|
| LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD | 2x4 SP No.2 2x4 SP No.2 Structural wood she 1-10-15 oc purlins. Rigid ceiling directly bracing. | eathing directly applied | 6) I or 7) 8) | * This truss h on the botton 3-06-00 tall b chord and an Refer to girde Provide mech bearing plate 3. | has been designe in chord in all area by 2-00-00 wide w by other members er(s) for truss to the hanical connection a capable of withs | d for a liv as where vill fit betw s. russ conr on (by oth tanding 1 | e load of 20.0 a rectangle veen the botto rections. ers) of truss t 9 lb uplift at j | 0psf om to joint | | | | | |
| REACTIONS | (size) 2=0-3-8, Mechanic Max Horiz 2=47 (LC Max Uplift 2=-79 (LC Max Grav 2=184 (L | 3= Mechanical, 4= cal : 10) C 10), 3=-19 (LC 14) C 21), 3=37 (LC 21), 4 | 9) =30 | One RT7A M truss to beari connection is forces.) This truss is o International | liTek connectors ing walls due to L s for uplift only an designed in acco Residential Code | recomme JPLIFT at d does no rdance with sections | nded to conr jt(s) 2. This ot consider la th the 2015 R502 11 1 a | nect Iteral | | | | | |

(LC 7) FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/25, 2-8=-101/91, 3-8=-10/11 2-4=-59/22

BOT CHORD

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber 2) DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | EJ02 | Jack-Open | 2 | 1 | Job Reference (optional) | 145815345 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:57 ID:jLHNOaR2n8aiqbAOeurj9ezNyPv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







2x4 =

3-10-15

| Scale = 1:26.3 | | | | | | | | | | | | | - | | |
|--|---|---|--|--|---|---|---|--|---------------------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|--|
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC20 | 15/TPI2014 | CSI TC BC WB Matrix-MP | 0.21 0.15 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.01 -0.02 0.00 | (loc) 4-7 4-7 3 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 14 lb | GRIP 244/190 FT = 20% | |
| LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP N 2x4 SP N Structura 3-10-15 c Rigid ceil bracing. (size) Max Horiz Max Uplift Max Grav | o.2 o.2 I wood she oc purlins. ing directly 2=0-3-8, 3 Mechanic 2=73 (LC 2=-79 (LC 2=252 (LC | athing directly applie applied or 10-0-0 or 3= Mechanical, 4= al 10) 2 10), 3=-47 (LC 14) 2 21), 3=107 (LC 21) | ed or to see the second | * This truss I on the botton 3-06-00 tall I chord and air () Refer to gird Provide mec bearing plate 3. One RT7A M truss to bear connection is forces. This truss is International | has been designe in chord in all area by 2-00-00 wide wind hy other members er(s) for truss to t shanical connection a capable of withs hiTek connectors ing walls due to L is for uplift only an designed in accoo Residential Code | d for a liv as where vill fit betv s. russ com on (by oth tanding 4 recomme JPLIFT ai d does no rdance we e sections | e load of 20. a rectangle veen the bott nections. ers) of truss 7 lb uplift at jt(s) 2. This ot consider la ith the 2015 i. R502.11.1 a | Opsf to joint nect ateral | | | | | | |
| FORCES | (lb) - Max Tension | 4=70 (LC timum Com | pression/Maximum | I | R802.10.2 a OAD CASE(S). | nd referenced sta Standard | Indard AN | ISI/TPI 1. | | | | | | | |
| TOP CHORD | 1-2=0/25, | , 2-8=-147/ | 103, 3-8=-31/26 | | | | | | | | | | | | |
| | 2-4=-53/4 | +7 | | | | | | | | | | | | | |
| 1) Wind: AS Vasd=103 Cat. II; Ex zone and exposed ; members | CE 7-10; Vu Bmph; TCDL p B; Enclose C-C Exterio end vertica and forces | IIt=130mph .=6.0psf; B ed; MWFR r (2) zone; I left and rig & MWFRS | (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterio cantilever left and right exposed;C-C for for reactions shown. | r ght : | | | | | | | ſ | 1 million | TH CA | ROLIN | |

- Lumber DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber 2) DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live 4) load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Summun Vinner and SEAL 45844 104 minin April 26,2021

818 Soundside Road Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | EJ03 | Jack-Open | 2 | 1 | Job Reference (optional) | 145815346 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:57 ID:jLHNOaR2n8aiqbAOeurj9ezNyPv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



3-10-8





2x4 =

Scale = 1:26.2

| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 1-11-4 1.15 1.15 YES IRC2015 | /TPI2014 | CSI TC BC WB Matrix-MP | 0.19 0.13 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.01 -0.02 0.00 | (loc) 4-7 4-7 3 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 14 lb | GRIP 244/190 FT = 20% | |
|---|--|--|---|--|--|---|---|---------------------------------------|--------------------------|-------------------------------|--------------------------|---------------------------------|------------------------------------|------------|
| LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD NOTES 1) Wind: AS(Vasd=103 Cat. II; Ex zone and exposed ; members Lumber D FUIY Exp. 3) Unbalanca design. 4) This truss load of 12 overhangs 5) This truss | 2x4 SP No.2 2x4 SP No.2 Structural wood she: 3-10-8 oc purlins. Rigid ceiling directly bracing. (size) 2=0-3-8, 3 Mechanic Max Horiz 2=70 (LC Max Uplift 2=-77 (LC Max Grav 2=241 (LC (lb) - Maximum Com Tension 1-2=0/25, 2-8=-140/2 2-4=-52/44 CE 7-10; Vult=130mph imph; TCDL=6.0psf; Br p B; Enclosed; MWFRS C-C Exterior (2) zone; end vertical left and rig and forces & MWFRS OL=1.60 plate grip DO CE 7-10; Pr=20.0 psf (5 Plate DOL=1.15); Pf= OL=1.15 Plate DOL=1 ; Ct=1.10 ed snow loads have be has been designed for 0 psf or 1.00 times flat s non-concurrent with co has been designed for | athing directly applie applied or 10-0-0 oc 3= Mechanical, 4= al 10) 2 10), 3=-44 (LC 14) 2 21), 3=101 (LC 21) 7) pression/Maximum 99, 3-8=-29/25 (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and rig ght exposed;C-C for for reactions shown; L=1.60 roof live load: Lumbe 20.0 psf (flat roof sn .15); Category II; Exp een considered for th r greater of min roof 1 t roof load of 20.0 ps ther live loads. | 6) ed or 7) 8) 9) 10) 10) 10) 10) 10) 10) 10) 10) 10) 10 | * This truss f on the bottor 3-06-00 tall f chord and ar Refer to gird Provide mec 3. One RT7A M truss to bear connection is forces. This truss is International R802.10.2 a AD CASE(S) | has been designed in chord in all area by 2-00-00 wide w by other members er(s) for truss to tr hanical connection e capable of withst AiTek connectors r ing walls due to U s for uplift only and designed in accor Residential Code nd referenced star Standard | d for a liv is where ill fit betw russ conr n (by oth recomme PLIFT at d does no dance wi sections ndard AN | e load of 20. a rectangle veen the bott ections. ers) of truss 4 lb uplift at j nded to comr jt(s) 2. This ot consider la th the 2015 R502.11.1 a ISI/TPI 1. | Opsf om ioint nect iteral | | | | SEA 4584 | L HA EEFROOT | , Summing, |
| obord live | lood nonconcurrent wi | th any other live lead | de la | | | | | | | | | 1.511 | 11 | |

- DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live 4) load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

818 Soundside Road Edenton, NC 27932

11 JULIA

April 26,2021

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | EJ04 | Jack-Open | 2 | 1 | Job Reference (optional) | 145815347 |

3-10-8

12 4 Г

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

1-9-9

0-6-1

ø

2x4 =

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:58 ID:jLHNOaR2n8aiqbAOeurj9ezNyPv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2

Page: 1

April 26,2021

818 Soundside Road Edenton, NC 27932

7 1-9-9 3 3-10-8

| Scale | = | 1.23.5 |
|-------|---|--------|
| ocale | _ | 1.20.0 |

| Loading (psf) Spacing 1-11-4 CSI DEFL in (loc) //def L/def MT20 TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.21 Vert(LL) 0.01 3-6 >999 180 Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.16 Vert(CT) -0.02 3-6 >999 180 TCDL 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 1 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-MP WB Weig Weig | ATES GRIP 20 244/190 ight: 12 lb FT = 20% |
|---|---|
| LUMBER TOP CHORD 2x4 SP No.2 SBRACING SDT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing. REACTIONS (size) 1=0-38, 2= Mechanical, 3= Mechanical Max Horiz 1=48 (LC 10) Max CPII 1=4148 (LC 20, 2=102 (LC 20), 3=69 (LC 7) FORCES (b) - Maximum Compression/Maximum Tension TOP CHORD 1-7.7=45/13, 2-7=-29/25 S0T CHORD 1-7.7=15/14-00L=1.15 Plate D0L=1.15; Plate D0L=1.15; Category II; Exp B; Fully Exp; Ct=1.10 30 Uhalanced snow loads have been considered for this design. 1 This truss has been designed for a 100 p5 bottom chord and anow loads have been considered for this design. 2 This truss has been designed for a 100 p5 bottom chord and an areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and an ov other members. | SEAL 45844 |

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|-------------|-----|-----|--------------------------------|-----------|
| 21040035-A | G01 | Flat Girder | 1 | 2 | Job Reference (optional) | 145815348 |

5-3-0

5-3-0

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

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:58 ID:KVxw6tapLd4FHuxLSIs9rNzNyAD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

10-6-0

5-3-0

Page: 1

P



Scale = 1:54.8

| Diato | Offcoto | (Y | V١٠ | [5·0 5 0 0 4 12] |
|--------|---------|--------------|------|-----------------------|
| i iato | 0113013 | (<i>N</i> , | ·). | [0.0, 0, 0, 0, 0, 12] |

| Load TCL Snov TCD | ding L (roof) w (Pf) DL | | (psf) 20.0 20.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.15 1.15 NO | 5/TPI2014 | CSI TC BC WB Matrix-MSH | 0.57 0.91 0.56 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.06 -0.09 0.00 | (loc) 5-6 5-6 4 | l/defl >999 >999 n/a | L/d 240 180 n/a | PLATES MT20 | GRII 244/ | P 190 | |
|---|--|---|--|--|-------------------------------|---|---|--|---|---|--------------------------|---|--|--|--|---|------------------------------|
| | DL | | 10.0 | Code | 11(0201) | 5/11/2014 | Mathx-Mort | | | | | | | Weight: 195 | lb FT = | = 20% | |
| LUM TOP BOT WEE BRA TOP BOT | MBER CHORD CHORD 3S ACING CHORD CHORD ACTIONS | 2x6 SP No. 2x6 SP No. 2x4 SP No. 2-0-0 oc pu end vertica Rigid ceilin bracing. (size) 4 Max Horiz 6 | .2 .2 .3 urlins (6-0- Ils. g directly 4= Mecha 5=227 (LC | -0 max.): 1-3, except applied or 10-0-0 oc nical, 6= Mechanical 2 9) | 3) t 4) 5) | Wind: ASCE Vasd=103mp Cat. II; Exp B zone; cantile and right exp DOL=1.60 TCLL: ASCE DOL=1.15 PI Lumber DOL Fully Exp.; C Unbalanced design | 7-10; Vult=130mpł h; TCDL=6.0psf; B ; Enclosed; MWFR ver left and right ex osed; Lumber DOL 7-10; Pr=20.0 psf ate DOL=1.15; Pfr =1.15 Plate DOL=1 t=1.10 snow loads have b | n (3-sec 3CDL=6 8S (env cposed _=1.60 p (roof liv =20.0 p 1.15); C een cor | cond gust) cond gust) consf; h=25ft; elope) exterical olate grip e load: Lumb sf (flat roof sr ategory II; Ex asidered for th | ; or left er now: cp B; nis | 2) De Pl Ur Ca | Vert: 7= (F), 13= 17=-44 ead + Rc ate Incre biform Lo Vert: 1-3 oncentra Vert: 7= 13=-87 17=-43 | -118 (l -111 (l (F), 18 oof Live ease=1 bads (l 3=-60, ted Lo -94 (F (F), 14 (F), 18 | F), 8=-111 (F) F), 14=-46 (F) =-44 (F) e (balanced): .15 b/ft) d-6=-570 ads (lb)), 8=-87 (F), 15= =-43 (F) | , 10=-111 , 15=-44 (Lumber In 0=-87 (F) -43 (F), 1(| (F), 12=- ⁻ (F), 16=-44 ncrease=1 , 12=-87 (I 6=-43 (F), | 111 4 (F), .15, F), |
| FOR | CES | Max Grav (lb) - Maxin Tension | 4=3518 (L num Com | C 2), 6=3572 (LC 2) pression/Maximum | 6) 7) | Provide adec This truss ha | uate drainage to p s been designed for | revent or a 10.0 | water ponding) psf bottom | g. ds | | | | | | | |
| top Bot | CHORD | 1-6=-2363/ 8-9=-1743/ 2-11=-1743 12-13=-174 6-14=-186/ 15-16=-186 | 82, 1-7=- 0, 9-10=- 3/0, 11-12 43/0, 3-13 189, 14-1 5/189, 5-1 | 1743/0, 7-8=-1743/0, 1743/0, 2-10=-1743/0 =-1743/0, =-1743/0, 3-4=-2327/ 5=-186/189, 6=-186/189, 72/75 4 49, 72/75 | 8)), /36 9) 10 | * This truss h on the botton 3-06-00 tall b chord and an Refer to girde) This truss is o | as been designed n chord in all areas y 2-00-00 wide will y other members. er(s) for truss to tru designed in accord | for a liv where fit betv ss conr ance w | e load of 20.0 a rectangle veen the botto nections. ith the 2015 | Opsf om | | | | | | | |
| WEE | BS | 1-5=0/2715 | 5, 17-18= 5, 2-5=-69 | 4/576, 3-5=0/2715 | | R802.10.2 ar | Residential Code s | sections | s R502.11.1 a ISI/TPI 1. | ind | | | | and the second | 1 | 11, | |
| ΝΟΤ | TES | | | , - | 11 |) Load case(s) | 1, 2 has/have bee | n modif | ied. Building | | | 1 | 1.5 | ATH | UNHO | Chin. | |
| 1) 2 2) 4 1 | 2-ply truss (0.131"x3" Top chords oc, 2x6 - 2 Bottom chor staggered Web conne All loads a except if n CASE(S) s provided to unless othe | to be connected) nails as foll s connected P rows stagge ords connect at 0-9-0 oc. ected as follc rre considere oted as front section. Ply to o distribute on erwise indica | cted toget ows: as follows red at 0-9 ed as follo ows: 2x4 - d equally a (F) or bac o ply conn nly loads n tted. | her with 10d :: 2x4 - 1 row at 0-9-0 I-0 oc. : 2x6 - 2 rows 1 row at 0-9-0 oc. applied to all plies, :k (B) face in the LOA ections have been noted as (F) or (B), | 12 13 13 LC AD 1) | designer mus correct for the) Graphical pu or the orienta bottom chord) "NAILED" inc (0.148"x3.25" DAD CASE(S) Dead + Snot Increase=1. Uniform Loa Vert: 1-3: Concentrate | st review loads to v e intended use of the rlin representation tition of the purlin al ticates 3-10d (0.14 ") toe-nails per NDS Standard w (balanced): Lum 15 ads (lb/ft) =-60, 4-6=-170 ad Loads (lb) | erify tha his trus: does no long the 8"x3") o S guidli ber Inc | at they are s. bt depict the s e top and/or or 3-12d nes. rease=1.15, F | plate | | Comment | A Real Providence | SE 45 NOREW | EAL 844 NEER JOH | NS NILLIN | Summun |

April 26,2021



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | H01 | Monopitch | 2 | 1 | Job Reference (optional) | 145815349 |

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Page: 1

| 2-9-9 | 4-2-4 | 5-8-0 j |
|-------|--------|---------|
| 2-9-9 | 1-4-11 | 1-5-12 |





Scale = 1:48.8

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

| - | | | | | | | | | | | | | | |
|---|--|---|--|-----------------------------|---|--|---|--|---------------------------|-------|------------------------------|---|---------------|-------------------|
| Loading | | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | | 20.0 | Plate Grip DOL | 1.15 | | тс | 0.40 | Vert(LL) | 0.01 | 8-11 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | | 20.0 | Lumber DOL | 1.15 | | BC | 0.11 | Vert(CT) | -0.01 | 8-11 | >999 | 180 | | |
| TCDL | | 10.0 | Rep Stress Incr | YES | | WB | 0.04 | Horz(CT) | 0.00 | 1 | n/a | n/a | | |
| BCLL | | 0.0* | Code | IRC201 | 5/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | | 10.0 | | | | | | | | | | | Weight: 42 lb | FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No. 2x4 SP No. 2x4 SP No. Left: 2x4 SI Structural v 5-8-0 oc pu Rigid ceilin bracing. (size) Max Horiz | 2 2 3 P No.3 wood shea rrlins, exc g directly 1=0-5-8, 8 1=180 (LC 1=-16 (LC | athing directly applied cept end verticals. applied or 6-0-0 oc 3=0-3-8 C 13) : 10), 8=-121 (LC 11) | 5; 6; d or 7; L | * This truss h on the botton 3-06-00 tall b chord and an One RT7A M truss to beari This connect lateral forces This truss is International R802.10.2 ar OAD CASE(S) | as been designed in chord in all areas y 2-00-00 wide wil y other members. iTek connectors re ng walls due to UF ion is for uplift only designed in accord Residential Code s ind referenced stan Standard | for a liv s where Il fit betw ecomme PLIFT at / and do dance w sections dard AN | e load of 20.1 a rectangle veen the bott nded to conr jt(\$) 1 and 8 es not consid th the 2015 R502.11.1 a SI/TPI 1. | Dpsf om hect der | | | | | |
| | Max Grav 1 | 1=198 (LC | C 28), 8=355 (LC 23) | | | | | | | | | | | |
| FORCES | (lb) - Maxin Tension | num Com | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | 1-2=-181/8 4-5=-13/0, | 7, 2-3=-14 4-7=-68/5 | 47/89, 3-4=-102/100, 53 | | | | | | | | | | | |
| BOT CHORD | 1-8=-99/83 | , 7-8=-73/ | /84, 6-7=0/0 | | | | | | | | | | | |
| WEBS | 2-8=-159/1 | 08, 3-8=- | 131/90, 3-7=-62/55 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | mun | 1111 |
| Wind: ASC Vasd=1033 Cat. II; Exp zone and (exposed ; members a Lumber D0 TCLL: ASC DOL=1.15 Lumber D0 Fully Exp.; Unbalance design. This truss chord live | CE 7-10; Vult: mph; TCDL= o B; Enclosec C-C Exterior I end vertical I and forces & DL=1.60 platt CE 7-10; Pr= Plate DOL= DL=1.15 Plat Ct=1.10 ad snow loads has been des load noncond | =130mph 6.0psf; BG 3; MWFRS 2; 20 zone; ; eft and ric MWFRS e grip DO 20.0 psf (r 1.15); Pf= e DOL=1. s have be signed for current wit | (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and rig ght exposed; C-C for for reactions shown; L=1.60 roof live load: Lumbe 20.0 psf (flat roof sno 1.5); Category II; Exp en considered for thi a 10.0 psf bottom th any other live load | ht ow: ∋B; s. | | | | | | | L'united and a second second | And | SEA 4584 | L EEFR. GONING |

818 Soundside Road Edenton, NC 27932

April 26,2021

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|---------------------|-----|-----|--------------------------------|-----------|
| 21040035-A | HJ01 | Diagonal Hip Girder | 2 | 1 | Job Reference (optional) | 145815350 |

<u>-1-10-10</u> 1-10-10

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

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:59 ID:fkO7pFSIJIqQ4uKmmJtBE3zNyPt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

NAILED

5-4-4 5-4-4 Page: 1





5-4-4

NAILED

Scale = 1:31.4

| Loading (p TCLL (roof) 20 Snow (Pf) 20 TCDL 10 BCLL 0 BCDL 10 | sf) Spacing D.0 Plate Grip DOL D.0 Lumber DOL D.0 Rep Stress Incr D.0* Code | 2-0-0 1.15 1.15 NO IRC2015/TPI2014 | CSI TC 0.47 BC 0.30 WB 0.00 Matrix-MP | DEFL in Vert(LL) -0.03 Vert(CT) -0.07 Horz(CT) 0.01 | (loc) 4-7 4-7 2 | l/defl >999 >920 n/a | L/d 240 180 n/a | PLATES MT20 Weight: 21 lb | GRIP 244/190 FT = 20% |
|--|---|---|---|---|--------------------------|-------------------------------|--------------------------|---------------------------------|--|
| LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 BRACING TOP CHORD Structural wood 5-4-4 oc purlins BOT CHORD Rigid ceiling di bracing. REACTIONS (size) 2=0- Max Horiz 2=64 Max Uplift 2=-1 (b) - Maximum Tension TOP CHORD (b) - 400 CHORD 1-2=0/26, 2-8= 3-9=-26/26, 3-4 BOT CHORD 2-10=-129/62, 3-4 BOT CHORD 2-10=-115 BOT CHORD 2-100=-115 BOT CHORD 2-100=-115 BOT CHORD 2-100=-115 BOT CHORD 2-100=-115 BOT C | d sheathing directly applied s, except end verticals. rectly applied or 10-0-0 oc -4-9, 4= Mechanical 4 (LC 11) 23 (LC 8), 4=-35 (LC 12) 50 (LC 19), 4=-208 (LC 19) 10 Compression/Maximum -175/189, 8-9=-29/0, 4=-149/53 4-10=-19/15 0mph (3-second gust) st; BCDL=6.0psf; h=25ft; WFRS (envelope) exterior ht exposed ; end vertical le DOL=1.60 plate grip 0) psf (roof live load: Lumber i); Pf=20.0 psf (flat roof sno OL=1.15); Category II; Exp twe been considered for this ed for greater of min roof live es flat roof load of 20.0 psf with other live loads. ed for a 10.0 psf bottom ent with any other live loads | 6) * This truss I i on the botton 3-06-00 tall I chord and an 7) Refer to gird 8) Provide mec bearing plate 4. 9) One RT7A N truss to bear connection is forces. 10) This truss is International R802.10.2 a 11) "NAILED" in the LOAD of the truss a LOAD CASE(S) 1) Dead + Smi Increase=1 Uniform Lo ft Vert: 1-3 Concentrat Vert: 10- w: B; | has been designed for a li m chord in all areas where by 2-00-00 wide will fit betw ny other members. Jer(s) for truss to truss com chanical connection (by oth e capable of withstanding 3 MiTek connectors recomme ring walls due to UPLIFT a is for uplift only and does n designed in accordance w I Residential Code sections and referenced standard AM dicates 3-10d (0.148"x3") (d 5") toe-nails per NDS guidli 0 CASE(S) section, loads a are noted as front (F) or ba) Standard ow (balanced): Lumber Inc 1.15 adds (lb/ft) 3=-60, 4-5=-20 ted Loads (lb) =1 (F=1, B=1) | ve load of 20.0psf a rectangle ween the bottom nections. lers) of truss to 35 lb uplift at joint ended to connect t jt(s) 2. This of consider lateral vith the 2015 s R502.11.1 and VSI/TPI 1. or 2-12d ines. pplied to the face lock (B). crease=1.15, Plate | | | Liter | SEA 4584 | ROLINI With A L HA OHNSUIT |

April 26,2021



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

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | J01 | Jack-Open | 5 | 1 | Job Reference (optional) | 145815351 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:59 ID:rINYuXZBaJyOfkM9u1LwJ9zNyAE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.5

| LUMBER 2x4 SP No.2 6) This truss has been designed for a 10.0 psf bottom chord live load on concurrent with any other live loads. BOT CHORD 2x4 SP No.2 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. BRACING 5-9-0 oc purlins, except end verticals. BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing. REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-5-8 Max Horiz 5=196 (LC 14) Max Grav 3=176 (LC 24), 4=-16 (LC 7), 5=326 (LC 21) FORCES (lb) - Maximum Compression/Maximum | |
|---|---------------|
| Tension TOP CHORD 2-5279/63 1-2-0/57 2-6161/103 | |
| 3-6=-127/133 | |
| BOT CHORD 4-5=0/0 | |
| NOTES 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10 3) 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads. 5) All plates are MT20 plates upless otherwise indicated | SEAL 45844 |

April 26,2021

818 Soundside Road Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | PB01 | Piggyback | 1 | 1 | Job Reference (optional) | 145815352 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:49:59 ID: cBdb VBICqGf VT fh Ds08b4qz Ny On-RfC ?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC? ff Control of the second state of the seco





Scale = 1:30.7

| Loading | | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|--------------|------------------|------------------------|------------------------|----------|---|---------------------|---------------------|--------------------------|-------------|-------|----------|-------|---------------|----------|-----|
| TCLL (roof) | | 20.0 | Plate Grip DOL | 1.15 | | TC | 0.06 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 | |
| Snow (Pf) | | 20.0 | Lumber DOL | 1.15 | | BC | 0.03 | Vert(CT) | n/a | - | n/a | 999 | | | |
| TCDL | | 10.0 | Rep Stress Incr | YES | | WB | 0.04 | Horz(CT) | 0.00 | 15 | n/a | n/a | | | |
| BCLL | | 0.0* | Code | IRC20 | 15/TPI2014 | Matrix-MP | | | | | | | | | |
| BCDL | | 10.0 | | | | | | | | | | | Weight: 28 lb | FT = 20% | |
| | | | | 2 |) Wind: ASCE | 7-10: Vult=130m | nph (3-sec | cond aust) | | LOAD | CASE(S) | Sta | ndard | | |
| TOP CHORD | 2x4 SP No 2 | , | | | Vasd=103m | oh: TCDL=6.0psf | : BCDL=6 | .0psf: h=25ft: | | | (-) | | | | |
| BOT CHORD | 2x4 SP No.2 | 2 | | | Cat. II; Exp E | ; Enclosed; MWI | FRS (env | elope) exterio | r | | | | | | |
| OTHERS | 2x4 SP No.3 | 3 | | | zone and C- | C Exterior (2) zor | ne; cantile | ver left and ri | ght | | | | | | |
| BRACING | | | | | exposed ; en | d vertical left and | d right exp | osed;C-C for | | | | | | | |
| TOP CHORD | Structural w | ood shea | athing directly applie | d or | members an | d forces & MWFF | RS for rea | ctions shown | ; | | | | | | |
| | 6-0-0 oc pur | lins. | 5 , | | Lumber DOL | =1.60 plate grip | DOL=1.60 |) | | | | | | | |
| BOT CHORD | Rigid ceiling | directly | applied or 10-0-0 oc | 3 |) Truss desig | ned for wind load | ls in the p | lane of the tru | ISS | | | | | | |
| | bracing. | | | | only. For stu | ids exposed to w | ind (norm | al to the face) |), | | | | | | |
| REACTIONS | (size) 2= | =5-10-15 | , 6=5-10-15, 8=5-10 | -15, | see Standard | a Industry Gable | End Deta | IIS as applicat | | | | | | | |
| | 9= | =5-10-15 | , 10=5-10-15, | / | | 7-10. Pr-20.0 p | esigner a: | e load: Lumb | or . | | | | | | |
| | 11 | 1=5-10-1 | 5, 15=5-10-15 | | DOI =1 15 P | late DOI =1 15) | Pf=20.0 n | sf (flat roof sn | iow. | | | | | | |
| | Max Horiz 2= | =-69 (LC | 12), 11=-69 (LC 12) |) | Lumber DOL | =1.15 Plate DOL | =1.15): C | ategory II: Ex | pB: | | | | | | |
| | Max Uplift 2= | =-24 (LC | 10), 6=-7 (LC 11), 8 | 8=-88 | Fully Exp.; C | t=1.10 | - // - | J , , | | | | | | | |
| | (L | .C 15), 1 | 0=-94 (LC 14), 11=-2 | 24 5 |) Unbalanced | snow loads have | been cor | sidered for th | nis | | | | | | |
| | (L | .C 10), 1 | 5=-7 (LC 11) | | design. | | | | | | | | | | |
| | Max Grav 2= | =56 (LC) | 29), 6=56 (LC 1), 8= | 165 6 |) This truss ha | s been designed | for greate | er of min roof | live | | | | | | |
| | (L | LC 25), 9: 4) 11_56 | =117 (LC 1), 10=177 | (LC | load of 12.0 | osf or 1.00 times | flat roof lo | bad of 20.0 ps | sf on | | | | | | |
| FORCES | (lb) - Maximi | 4), 11=50 um Com | pression/Maximum | , i) | overhangs n | on-concurrent wit | th other liv | /e loads. | | | | | | | |
| FORCES | (ID) - Maxim | | pression/maximum | / |) Gable requir | es continuous do | atom chor | d bearing. | | | | | | 1111 | |
| TOP CHORD | 1-2=0/15 2- | 3=-74/59 | 3-18=-76/50 | c c |) Gable studs | spaceu al 4-0-0 l | 00. I for a 10 (|) nef hottom | | | | | 11111 00 | - Martin | |
| | 4-18=-36/55 | 4-19=-3 | 38/56 5-19=-68/51 | 3 | chord live los | ad nonconcurrent | t with any | other live load | de | | | | IN TH UA | RO | 872 |
| | 5-6=-52/43, | 6-7=0/15 | 5 | 1 | 0) * This truss h | as been designe | d for a liv | e load of 20 0 | us. Insf | | \wedge | S | A | : ···// | 11. |
| BOT CHORD | 2-10=-22/56 | , 9-10=-2 | 22/56, 8-9=-22/56, | | on the bottor | n chord in all are | as where | a rectangle | poi | | | 1 | AGEFT | PARK | in |
| | 6-8=-22/56 | , | , , | | 3-06-00 tall b | y 2-00-00 wide v | vill fit betv | veen the botto | m | | | | | 1. | 1 |
| WEBS | 3-10=-175/1 | 35, 4-9= | -71/0, 5-8=-160/122 | | chord and ar | y other members | s. | | | | - | | X I | | |
| NOTES | | | | 1 | 1) _{N/A} | | | | | | - | | SEA | L | = |
| 1) Unbalance | ed roof live loa | ds have | been considered for | | | | | | | | - | : | AFO | 14 | |
| this design | n. | | | | | | | | | | = | | 4004 | +4 | |
| | | | | | 0) This true - !- | dealaned in c | | th the 2015 | | | - | 3 | | | 3 |
| | | | | 1 | I NIS TRUSS IS International | Designed in acco | nuance w | DE02 11 1 0 | nd | | | :7 | · | ais | 23 |
| | | | | | R802 10 2 a | residential CODE | e secuons | 1902.11.1 a 191/TPI 1 | nu | | | 11 | GIN | EE | 5 |
| | | | | 1 | 3) See Standar | d Industry Piggy | nualu An | s Connection | | | | 11 | Ar | UNS. | 5 |
| | | | | | Detail for Co | nnection to base | truss as a | annlicable or | | | | 11.00 | WI:SW J | 011,11 | |
| | | | | | consult quali | fied building desi | aner. | | | | | | in min | unu. | |
| | | | | | | | 5 | | | | | | | | |

April 26,2021



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

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | PB02 | Piggyback | 8 | 1 | Job Reference (optional) | 145815353 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:00 ID:kEzMMGthmiaqctnF6NUdUkzNyO2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



818 Soundside Road Edenton, NC 27932



Scale = 1:28.5

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

| | , | -,, [= ., 0 0] | | | | | | | | | | | |
|---|---|---|--|---|--|---|---|---|----------------------|-----------------------------|--|---------------------------------|---|
| Loading TCLL (roof) Snow (Pf) TCDL BCDL BCDL LUMBER TOP CHORD BOT CHORD OTHERS BRACING | (psf) 20.0 20.0 10.0 0.0 10.0 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC207 3 | 5/TPI2014) Truss desig only. For stu see Standar or consult qu) TCLL: ASCE | CSI TC BC WB Matrix-MP Ined for wind load uds exposed to w d Industry Gable Jalified building d E 7-10; Pr=20.0 p | 0.11 0.11 0.01 ds in the p vind (norm End Deta designer as bsf (roof liv | DEFL Vert(LL) Vert(CT) Horz(CT) ane of the tru al to the face is as applical is as applical s per ANS/TFI e load: Lumb | in n/a 0.00 uss), ble, Pl 1. er | (loc) - - 4 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 26 lb | GRIP 244/190 FT = 20% |
| TOP CHORD | Structural wood s 6-0-0 oc purlins. | sheathing directly app | lied or | Lumber DOL=1.15 Plate DOL=1.15); PI=20.0 psr (flat foor snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10 | | | | | | | | | |
| REACTIONS | bracing. (size) 2=5-10 7=5-10 Max Horiz 2=-69 Max Uplift 2=-33 7=-33 Max Grav 2=169 (LC 1) 1) |)-15, 4=5-10-15, 6=5-)-15, 11=5-10-15 (LC 12), 7=-69 (LC 12 (LC 14), 4=-42 (LC 15 (LC 14), 11=-42 (LC 1) (LC 1), 4=169 (LC 1), 7=169 (LC 1), 11=16 | 5 10-15, 6 2) 5), 7 15) 8 , 6=184 9 59 (LC | Unbalanced design. This truss ha load of 12.0 overhangs n Gable requir Gable studs This truss ha chord live lo | snow loads have as been designed psf or 1.00 times ion-concurrent wi res continuous bo spaced at 4-0-0 as been designed ad nonconcurren | d for great s flat roof k ith other lin ottom chor oc. d for a 10.0 it with any | er of min roof bad of 20.0 ps ve loads. d bearing. D psf bottom other live loa | live sf on ds. | | | | | |
| FORCES | (lb) - Maximum C Tension 1-2=0/15, 2-14=- | ompression/Maximun 118/62, 3-14=-67/69, | n 1 | 10) This truss has been designed for a live load of 20.0pst 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. | | | | | | | | | |
| BOT CHORD WEBS | 3-15=-67/69, 4-1 2-6=-25/61, 4-6= 3-6=-67/0 | -=-115/62, 4-5=0/15 -8/61 | 1 | 11) _{N/A} | | | | | | | | HTH CA | ROLIN |
| Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 | | | for 1 ft; 1 ior right or L /n; | 2) This truss is International R802.10.2 a 3) See Standar Detail for Cc consult qual OAD CASE(S) | designed in acco Residential Cod Ind referenced st rd Industry Piggy Innection to base lified building des Standard | ordance w le sections andard AN back Trus e truss as a signer. | ith the 2015 : R502.11.1 a ISI/TPI 1. s Connection applicable, or | nd | | Dannan | AN A | SEA 458 NGIN Apr | L 14 EFER. 60 0HN 0HN 11 126,2021 |

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | PB03 | Piggyback | 1 | 1 | Job Reference (optional) | 145815354 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:00 ID:BXrlbvRgYSiZSllaCbMyiszNyPu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



| | - |
|----------------|---|
| Scale = 1:30.6 | 1 |
| | |

2-11-13

| Loading TCLL (root) (psf) 20.0 Spacing Plate Grip DOL Lumber DOL 2-0-0 1.15 CSI TC 0.11 BC DEFL Vert(LL) in (loc) // / defl L/ PLATES GRIP TCDL (root) 10.0 Rep Stress Incr YES 0.01 BC DC | Plate Offsets (| X, Y): [2:0-2-1,0-1- | 0], [5:0-2-1,0-1-0] | | | | | | | | | | | | |
|--|---|---|--|--|--|---|---|--|---|----------------------|-----------------------------|--------------------------|---------------------------------|---|--|
| LUMBER 3) Truss designed for wind loads in the plane of the truss TOP CHORD 2x4 SP No.2 or studs exposed to wind loads in the plane of the truss OTHERS 2x4 SP No.3 or consult qualified building designer as applicable, or consult qualified building designer as applicable, or consult qualified building designer as applicable, or consult qualified building designer as per ANS/TP1 1. BRACING Structural wood sheathing directly applied or 10-0-0 or bracing. Yes T-10; Pr=20.0 psf (flat roof snow: Lumber DOL=1.15); Category II; Exp B; Fully Exp; Ct=1.10 BOT CHORD (size) 2=5-10-8, 7=5-5-10-8, 7=5-10-8, 7=5-5-10-8, 7=5-10-8, 7 | Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC201 | 5/TPI2014 | CSI TC BC WB Matrix-MP | 0.11 0.11 0.04 | DEFL Vert(LL) Vert(CT) Horz(CT) | in n/a n/a 0.00 | (loc) - - 2 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 27 lb | GRIP 244/190 FT = 20% | |
| Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer. LOAD CASE(S) Standard MGINEEF, 50111111111111111111111111111111111111 | LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD WEBS NOTES 1) Unbalance this design this design 2) Wind: ASG Vasd=103 Cat. II; Ex zone and exposed ; members Lumber D | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood s 6-0-0 oc purlins. Rigid ceiling direc bracing. (size) 2=5-10 8=5-10 Max Horiz 2=69 (L Max Uplift 2=-31 (7=-85 (12=-12 Max Grav 2=162 (LC 25) 1), 12= (lb) - Maximum Cr Tension 1-2=0/15, 2-16=-9 3-17=-65/69, 4-17 5-6=0/15 2-8=-24/56, 7-8=- 3-8=-66/0, 4-7=-1 ed roof live loads ha n. CE 7-10; Vult=130m imph; TCDL=6.0psf; p B; Enclosed; MWFF C-C Exterior (2) zon end vertical left and and forces & MWFF | heathing directly applie tly applied or 10-0-0 o -8, 5=5-10-8, 7=5-10-6 -8, 9=5-10-8, 12=5-10- C (13), 9=69 (LC 13) LC 14), 5=-12 (LC 11) LC 15), 9=-31 (LC 14) (LC 11) -(LC 1), 5=78 (LC 24), 9=16 -78 (LC 24) | 3) ed or bc 5) 3, 6) -8 6) 7=149 9) 52 (LC 1(12 52 (LC 1(12 57 12 57 13 57 L(57 L | Truss desig only. For stu see Standarr or consult qu TCLL: ASCE DOL=1.15 P Lumber DOL Fully Exp.; C Unbalanced design. This truss ha load of 12.0 overhangs n Gable requir Gable studs This truss ha chord live loa 0) * This truss is chord live loa 0) * This truss is not the bottor 3-06-00 tall fl chord and ar I) N/A 2) This truss is International R802.10.2 a 3) See Standar Detail for Co consult quali | ned for wind loads uds exposed to wind d Industry Gable E ualified building de 7-10; Pr=20.0 ps late DOL=1.15); P =1.15 Plate DOL= it=1.10 snow loads have I as been designed f psf or 1.00 times f on-concurrent with es continuous bott spaced at 2-0-0 o us been designed f ad nonconcurrent t ab been designed f ad nonconcurrent t nas been designed n chord in all area by 2-00-00 wide wi hy other members. designed in accor Residential Code nd referenced star d Industry Piggyba nnection to base t fied building desig Standard | in the pind (norm ind Deta signer as if (roof liv) f=20.0 p =1.15); C been cor for greate lat roof la n other liv toom chor c. for a 10.0 with any d for a liv s where ill fit betw dance w sections ndard AN russ as a ner. | ane of the tru al to the face Is as applical is per ANSI/TI e load: Lumb of (flat roof sr ategory II; Ex isidered for the er of min roof oad of 20.0 per re loads. d bearing.) psf bottom other live load a rectangle recen the bottom th the 2015 R502.11.1 a ISI/TPI 1. s Connection applicable, or | uss), ble, er now: p B; live sf on ds. Dpsf om | | Continue | | SEA 4584 NOREW J | RO(11 L L 4 EER 60 0HN50 126,2021 | |



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | PB04 | Piggyback | 15 | 1 | Job Reference (optional) | 145815355 |

Scale = 1:28.4

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:00 ID:MkEVGn?v65efaW0yLdvLuazNyef-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5



-0-7-7 6-5-15 2-11-4 5-10-8 0-7-7 0-7-7 2-11-4 2-11-4 4x5 = 3 12 10 Г 14 15 2-10-3 2-11-13 2 4)-4-13 1 М ø 6 2x4 🛛 2x4 = 2x4 = 5-10-8 Plate Offsets (X, Y): [2:0-2-1.0-1-0], [4:0-2-1.0-1-0]

| Plate Olisets | (X, Y): [2:0-2-1,0-1-0], | [4:0-2-1,0-1-0] | | | | | | | | | | | |
|---|--|--|---|---|---|---|--|--|----------------------|-----------------------------|---------------------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2015 | 5/TPI2014 | CSI TC BC WB Matrix-MP | 0.10 0.11 0.01 | DEFL Vert(LL) Vert(CT) Horz(CT) | in n/a n/a 0.00 | (loc) - - 4 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 26 lb | GRIP 244/190 FT = 20% |
| LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shead of the second seco | athing directly applied applied or 10-0-0 oc 4=5-10-8, 6=5-10-8, 11=5-10-8 13), 7=69 (LC 13) 14), 4=-42 (LC 15), 21), 4=-64 (LC 1), 6= 168 (LC 1), 11=168 (pression/Maximum 7/62, 3-14=-67/68, 114/62, 4-5=0/15 | 3) 4) 5) 6) 7) 8) 9) LC 10, 11 | Truss desig only. For stu see Standar or consult qu TCLL: ASCE DOL=1.15 P Lumber DOL Fully Exp.; C Unbalanced design. This truss ha load of 12.0 overhangs n Gable requir Gable studs This truss ha chord live loo:) * This truss la on the botton 3-06-00 tall H chord and an | ned for wind load: dids exposed to wi d Industry Gable I lalified building de 7-10; Pr=20.0 ps late DOL=1.15); F =1.15 Plate DOL t=1.10 snow loads have as been designed ps for 1.00 times on-concurrent wit es continuous boi spaced at 4-0-0 c las been designed ad nonconcurrent as been designed ad nonconcurrent as been designed py 2-00-00 wide w by other members | s in the pl ind (norm End Detai esigner as sf (roof liv Pf=20.0 p =1.15); C been cor for greate flat roof lc h other li ttom chor pc. for a 10.0 with any d for a liv as where vill fit betw s. | ane of the tru al to the face is as applical per ANSI/TF e load: Lumb sf (flat roof sr ategory II; Ex isidered for th er of min roof bad of 20.0 ps re loads. d bearing. 0 psf bottom other live loa e load of 20.0 a rectangle veen the botto | Jss), ble, PI 1. er now: cp Β; his live sf on ds. Dpsf pm | | | | | 10. |
| 3-15=-67/68, 4-15=-114/62, 4-5=0/15 BOT CHORD 2-6=-25/60, 4-6=-8/60 WEBS 3-6=-66/0 NOTES 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 | | | |) N/A) This truss is International R802.10.2 a) See Standar Detail for Co consult quali PAD CASE(S) | designed in acco Residential Code nd referenced sta d Industry Piggyb nnection to base fied building desig Standard | rdance w e sections Indard AN pack Trus: truss as a gner. | th the 2015 R502.11.1 a SI/TPI 1. s Connection pplicable, or | ind | | C | A A A A A A A A A A A A A A A A A A A | SEA 4584 VOR EN SEA | EER. 00 |



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | PB05 | Piggyback | 1 | 1 | Job Reference (optional) | 145815356 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:01 ID: QcbIPZ6AukDx8vhaFymEo2zNyJt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffice and the second sec

Page: 1



Scale = 1:30.6

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

| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-----------------------------|---------------------------|-------------------|---------------------------------|---------------------|-------------|---------------------------------------|-------|-------|---------|-----|---------------|---------------------------------------|---|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | | TC | 0.05 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 | |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | | BC | 0.03 | Vert(CT) | n/a | - | n/a | 999 | | | |
| TCDL | 10.0 | Rep Stress Incr | YES | | WB | 0.04 | Horz(CT) | 0.00 | 15 | n/a | n/a | | | |
| BCLL | 0.0* | Code | IRC20 | 15/TPI2014 | Matrix-MP | | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | | Weight: 28 lb | FT = 20% | |
| LUMBER | | | 2 |) Wind: ASCE | 7-10; Vult=130mp | oh (3-se | cond gust) | | LOAD | CASE(S) | Sta | ndard | | |
| TOP CHORD | 2x4 SP No.2 | | | Vasd=103m | ph; TCDL=6.0psf; | BCDL=6 | 6.0psf; h=25ft; | | | | | | | |
| BOT CHORD | 2x4 SP No.2 | | | Cat. II; Exp I | B; Enclosed; MWF | RS (env | elope) exterior | | | | | | | |
| OTHERS | 2x4 SP No.3 | | | zone and C- | C Exterior (2) zone | e; cantile | ever left and rig | ght | | | | | | |
| BRACING | | | | exposed ; er | d vertical left and | right exp | bosed;C-C for | | | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | ed or | Lumber DO | -1 60 plate arin D | | n n n n n n n n n n n n n n n n n n n | | | | | | | |
| | 6-0-0 oc purlins. | | 2 |) Truss desig | ned for wind loads | in the n | lane of the true | 20 | | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 10-0-0 or | c J | only Forst | ids exposed to wir | nd (norm | al to the face) | 55 | | | | | | |
| | bracing. | | | see Standar | d Industry Gable E | nd Deta | ils as applicab | le. | | | | | | |
| REACTIONS | (size) 2=5-10-8, | , 6=5-10-8, 8=5-10-8 | 3, | or consult qu | alified building de | signer a | s per ANSI/TP | 11. | | | | | | |
| | 9=5-10-8, | , 10=5-10-8, 11=5-10 o | ^{0-8,} 4 |) TCLL: ASCE | 7-10; Pr=20.0 ps | f (roof liv | e load: Lumbe | er | | | | | | |
| | 10=0-10-0 | 0 12) 11_60 (I C 12) | | DOL=1.15 P | late DOL=1.15); P | f=20.0 p | sf (flat roof sno | ow: | | | | | | |
| | Max Holiz 2=09 (LC | (10) = 7 (10 11) | 0_ 07 | Lumber DOL | =1.15 Plate DOL= | =1.15); C | Category II; Exp | ъB; | | | | | | |
| | (I C 15) | 10=-89 (I C 14) 11=- | -20 - | Fully Exp.; C | t=1.10 | | | | | | | | | |
| | (LC 10), 1 | 15=-7 (LC 11) | 20 5 |) Unbalanced | snow loads have I | been co | nsidered for thi | IS | | | | | | |
| | Max Grav 2=63 (LC | 25), 6=55 (LC 1), 8= | =165 g |) This truce br | s boon designed f | or groat | or of min roof l | ivo | | | | | | |
| | (LC 25), 9 | 9=114 (LC 1), 10=16 | 6 (LC | | nef or 1 00 times f | lat roof l | and of 20.0 pet | fon | | | | | | |
| | 24), 11=6 | 3 (LC 25), 15=55 (L | C 1) | overhands n | on-concurrent with | other li | ve loads. | 1 011 | | | | | | |
| FORCES | (lb) - Maximum Corr | pression/Maximum | 7 |) Gable requir | es continuous bott | om cho | rd bearing. | | | | | | | |
| | Tension | | 8 |) Gable studs | spaced at 2-0-0 o | с. | 0 | | | | | minin | 1111 | |
| FOP CHORD | 1-2=0/15, 2-3=-66/5 | 5, 3-18=-73/50, | 9 |) This truss ha | as been designed f | or a 10. | 0 psf bottom | | | | 6 | WHILL CA | Dall | |
| | 4-18=-37/55, 4-19=- | 37/55, 5-19=-68/50, | | chord live loa | ad nonconcurrent | with any | other live load | ls. | | ~ | 1 | a | | |
| | 5-6=-52/44, 6-7=0/1 | 5 | 1 | 0) * This truss I | has been designed | for a liv | e load of 20.0 | psf | | | ÷. | O'. HES | IB: NY | |
| BOT CHORD | 2-10=-22/56, 9-10=- | 22/56, 8-9=-22/56, | | on the bottor | m chord in all area | s where | a rectangle | | | | | vin b | enner | |
| WEDO | 0-0=-22/00 | 0/122 5 9- 160/122 | , | 3-06-00 tall 1 | by 2-00-00 wide wi | Il fit bety | ween the botto | m | | | | :2 | K : | - |
| | 4-3=-09/0, 3-10=-16 | 00/122, 3-0=-100/122 | <u>-</u> 1 | 1) NUA | iy other members. | | | | | Ξ. | | CE A | 1 E | 1 |
| NOTES | a dina af Bira da ada harra | h | | ') N/A | | | | | | - | : | SEP | L : | = |
| this docior | eu loot live loads have | been considered to | ſ | | | | | | | 2 | : | 4584 | 14 : | = |
| uns design | | | | | | | | | | - | i 1 | | | 5 |
| | | | 1 | 2) This truss is | designed in accor | dance w | ith the 2015 | | | | - | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 3 |
| | | | | International | Residential Code | sections | s R502.11.1 an | nd | | | - 7 | L. SNOW | EFR. ON | 6 |
| | | | | R802.10.2 a | nd referenced star | ndard Al | NSI/TPI 1. | | | | 1 | OV. AIN | F | |
| | | | 1 | See Standar | d Industry Piggyba | ack Trus | s Connection | | | | 1 | TEWI | OHN | |
| | | | | Detail for Co | nnection to base t | russ as | applicable, or | | | | | 11111 | | |
| | | | | consult quali | fied building desig | ner. | | | | | | | | |

April 26,2021

818 Soundside Road Edenton, NC 27932

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

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | PB06 | Piggyback | 3 | 1 | Job Reference (optional) | 145815357 |

3-6-1 3-6-1

12 10 ∟

14

Carter Components (Sanford), Sanford, NC - 27332

TCDL

BCLL

BCDL

WEBS

NOTES

1)

2)

3-5-8

3-3-12

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:01 ID:TW4ODuPbEWY2MrqJAu21KjzNy6Z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



7-0-2 3-6-1

> 4x5 = 3

> > 15



GRIP

244/190

FT = 20%

6 2x4 II 2x4 = 2x4 = 7-0-2 Scale = 1:30.3 Plate Offsets (X, Y): [2:0-2-1,0-1-0], [4:0-2-1,0-1-0] Loading 2-0-0 CSI DEFL l/defl L/d PLATES (psf) Spacing in (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 тс 0.16 Vert(LL) 999 MT20 n/a n/a Snow (Pf) 20.0 Lumber DOL 1.15 BC 0.16 Vert(CT) n/a n/a 999 10.0 Rep Stress Incr WB 0.02 Horz(CT) 4 YES 0.00 n/a n/a 0.0 Code IRC2015/TPI2014 Matrix-MP Weight: 30 lb 10.0 LUMBER 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), 2x4 SP No 2 TOP CHORD see Standard Industry Gable End Details as applicable, BOT CHORD 2x4 SP No 2 or consult qualified building designer as per ANSI/TPI 1. OTHERS 2x4 SP No.3 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber 4) BRACING DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: TOP CHORD Structural wood sheathing directly applied or Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; 6-0-0 oc purlins. Fully Exp.: Ct=1.10 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc 5) Unbalanced snow loads have been considered for this bracing. design. REACTIONS (size) 2=7-0-2, 4=7-0-2, 6=7-0-2, 6) This truss has been designed for greater of min roof live 7=7-0-2, 11=7-0-2 load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on Max Horiz 2=81 (LC 13), 7=81 (LC 13) overhangs non-concurrent with other live loads. Max Uplift 2=-40 (LC 14), 4=-50 (LC 15), Gable requires continuous bottom chord bearing. 7) 7=-40 (LC 14), 11=-50 (LC 15) Gable studs spaced at 4-0-0 oc. 8) Max Grav 2=200 (LC 1), 4=200 (LC 1), 6=209 9) This truss has been designed for a 10.0 psf bottom (LC 1), 7=200 (LC 1), 11=200 (LC chord live load nonconcurrent with any other live loads. 1) 10) * This truss has been designed for a live load of 20.0psf FORCES (Ib) - Maximum Compression/Maximum on the bottom chord in all areas where a rectangle Tension 3-06-00 tall by 2-00-00 wide will fit between the bottom TOP CHORD 1-2=0/15, 2-14=-148/76, 3-14=-91/84, chord and any other members. 3-15=-91/84, 4-15=-146/76, 4-5=0/15 11) _{N/A} BOT CHORD 2-6=-35/76, 4-6=-10/76 3-6=-71/1 C 12) This truss is designed in accordance with the 2015 Unbalanced roof live loads have been considered for International Residential Code sections R502.11.1 and this design. You www. R802.10.2 and referenced standard ANSI/TPI 1. Wind: ASCE 7-10; Vult=130mph (3-second gust) 13) See Standard Industry Piggyback Truss Connection Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior Detail for Connection to base truss as applicable, or consult qualified building designer zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for LOAD CASE(S) Standard members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2

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

April 26,2021

mm

WWWWWWWWWW



| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | PB07 | Piggyback | 1 | 1 | Job Reference (optional) | 145815358 |

<u>3-6-1</u> 3-6-1

-0-7-7

0-7-7

2

2x4 =

1

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

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:01 ID:KVxw6tapLd4FHuxLSIs9rNzNyAD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7-0-2

3-6-1



3x5 = 3 10^{12} 15 16 2x4 = 4 5 6 7

2x4 II

7-0-2

2x4 =

7-7-9

Scale = 1:30.4

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

Lumber DOL=1.60 plate grip DOL=1.60

3-3-14

0-4-13

3-5-8

| Plate Olisets | (X, Y): [2:0 | I-2-1,0-1-0 <u>]</u> , | , [3:0-2-8,Edge], [5:0- | -2-1,0-1- | J | | | | | | | | | |
|--|--|--|---|--|---|--|---|--|---|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC20 | 15/TPI2014 | CSI TC BC WB Matrix-MP | 0.20 0.22 0.04 | DEFL Vert(LL) Vert(CT) Horz(CT) | in n/a n/a 0.00 | (loc) - - 2 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 28 lb | GRIP 244/190 FT = 20% |
| LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP N 2x4 SP N 2x4 SP N 2x4 SP N Structura 6-0-0 oc Rigid cei bracing. (size) Max Horiz Max Uplift Max Grav | lo.2 lo.3 al wood she purlins. ling directly 2=7-0-2, 4 8=7-0-2, 2 2=-31 (LC 7=-67 (LC 11=-11 (L 2=250 (LC (L 2) 5) 5 | athing directly applie applied or 10-0-0 oc 5=7-0-2, 7=7-0-2, 11=7-0-2 2 12), 8=-81 (LC 12) 2 14), 5=-11 (LC 11), 2 15), 8=-31 (LC 14), C 11) C 1), 5=106 (LC 1), 7 2=250 (L C 1) 11=100 | 2 ed or 5 7 2 2 2 2 6 0 1 0 5 8 6 1 0 5 8 6 1 1 5 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Truss desig only. For stu see Standar or consult qu TCLL: ASCE DOL=1.15 P Lumber DOL Fully Exp.; C Unbalanced design. This truss ha load of 12.0 overhangs n Gable requir Gable studs This truss ha chord live load | ned for wind loads uds exposed to wi d Industry Gable E Jalified building de 7-10; Pr=20.0 ps Hate DOL=1.15); F ==1.15 Plate DOL= Ct=1.10 snow loads have as been designed psf or 1.00 times i on-concurrent wit res continuous bot spaced at 2-0-0 o as been designed ad nonconcurrent | is in the p and (norm End Deta signer a f (roof liv f=20.0 p =1.15); C been coo for great for great for great for great for a roof l c. for a 10. with any | lane of the tri ial to the face ils as applica s per ANSI/T ve load: Lumb si (flat roof s stegory II; E: nsidered for t er of min roo bad of 20.0 p ve loads. rd bearing. 0 psf bottom other live loa | uss a), ble, PI 1. cor now: xp B; his f live sf on ads. | | | | | |
| FORCES | (lb) - Ma: Tension | 1) ximum Corr | pression/Maximum | | on the bottor 3-06-00 tall I | m chord in all area by 2-00-00 wide w | ill fit bety | a rectangle veen the bott | om | | | | | |
| TOP CHORD |) 1-2=0/15 3-16=-11 5-6=0/15 | , 2-15=-163 1/68, 4-16= | 3/38, 3-15=-75/46, =-160/63, 4-5=-156/2 | 18, | 1) _{N/A} | | | | | | | | TH CA | ROIT |
| BOT CHORD |) 2-7=-32/ | 114, 5-7=-1 | 6/114 | | | | | | | | | - | O | id N' |
| NOTES 1) Unbalance this design 2) Wind: AS Vasd=100 Cat. II; Ep zone and exposed members | 4-7=-137 ced roof live gn. SCE 7-10; Vu 3mph; TCDI xp B; Enclos 1 C-C Exterio ; end vertica and forces | loads have ult=130mph L=6.0psf; B sed; MWFR or (2) zone; al left and rig & MWFRS | been considered for (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and rig ght exposed;C-C for for reactions shown; | r L ght | Inite trusts is International R802.10.2 a See Standar Detail for Co consult quali OAD CASE(S) | Residential Code nd referenced sta d Industry Piggyb nnection to base fied building desig Standard | ack Truss and ard Al ack Trus aruss as gner. | s R502.11.1 a NSI/TPI 1. s Connectior applicable, or | and n | | | K/C | SEA 4584 | LL H4 |





| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | PB08 | Piggyback | 3 | 1 | Job Reference (optional) | 145815359 |

-0-7-7

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

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:02 ID:logfQIXBNOfNumxgV20HyWzNyCt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



| Scale = 1:27.5 | 1 |
|--|---|
| Plate Offsets (X, Y): [2:0-2-1,0-1-0], [4:0-2-1,0-1-0] | |

| | (, .). [= =, | [| | | | | | | | | | |
|---|--|--|---|--|---|---|--|----------------------|-----------------------------|---|---------------------------------|------------------------------------|
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing 2 Plate Grip DOL 1.7 Lumber DOL 1.7 Rep Stress Incr YE Code IR | 0-0 15 15 15 15 15 15 15 15 15 17 19 10 14 | CSI TC BC WB Matrix-MP | 0.04 0.05 0.01 | DEFL Vert(LL) Vert(CT) Horz(CT) | in n/a n/a 0.00 | (loc) - - 4 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 18 lb | GRIP 244/190 FT = 20% |
| LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 5-3-9 oc purlins. Rigid ceiling directly bracing. (size) 2=4-0-2, 4 7=4-0-2, 7 Max Horiz 2=-50 (LC Max Uplift 2=-23 (LC (LC 14), 7 15) Max Grav 2=118 (LC (LC 1), 7= 1) | athing directly applied or r applied or 10-0-0 oc 4=4-0-2, 6=4-0-2, 11=4-0-2 2 12), 7=-50 (LC 12) 2 14), 4=-29 (LC 15), 6=-2 7=-23 (LC 14), 11=-29 (LC C 1), 4=118 (LC 1), 6=133 =118 (LC 1), 11=118 (LC | Truss desig only. For st see Standar or consult qi TCLL: ASCI DOL=1.15 F Lumber DOI Fully Exp.; C Unbalanced design. This truss hi load of 12.0 overhangs r Gable requii Gable studs This truss hi chord live lo * This truss on the botto | ined for wind loads in uds exposed to wind d Industry Gable En ualified building desi Z-10; Pr=20.0 psf (Plate DOL=1.15); Pf= L=1.15 Plate DOL=1 Ct=1.10 is now loads have be as been designed fo psf or 1.00 times fla ison-concurrent with or res continuous botto spaced at 4-0-0 oc. as been designed fo and nonconcurrent with has been designed f m chord in all areas | n the p I (norm d Deta gner a: (roof liv =20.0 p .15); C een cor r great t roof liv other li m chor r a 10.1 ith any for a liv where | lane of the tru al to the face ils as applica s per ANSI/TI e load: Lumb sf (flat roof sr iategory II; E) nsidered for tl er of min roof pad of 20.0 p ve loads. d bearing. D psf bottom other live loa e load of 20.0. | uss ble, PI 1. ver now: kp B; his f live sf on dds. 0psf | | | | | |
| FORCES | (lb) - Maximum Com Tension | npression/Maximum | 3-06-00 tall chord and a | by 2-00-00 wide will ny other members. | fit betv | veen the bott | om | | | | | |
| TOP CHORD BOT CHORD WEBS | 1-2=0/15, 2-3=-70/4 2-6=-13/40, 4-6=-9/4 3-6=-52/2 | 3, 3-4=-67/43, 4-5=0/15 40 | 11) _{N/A} | - | | | | | (| herry | NITH CA | ROLINI |
| Unbalanc this desig Wind: AS Vasd=10 Cat. II; E: zone and exposed members Lumber [| ed roof live loads have in. GE 7-10; Vult=130mph 3mph; TCDL=6.0psf; Br xp B; Enclosed; MWFR I C-C Exterior (2) zone; ; end vertical left and rig and forces & MWFRS DOL=1.60 plate grip DC | been considered for (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and right ght exposed;C-C for for reactions shown; DL=1.60 | 12) This truss is Internationa R802.10.2 a 13) See Standa Detail for Co consult qual LOAD CASE(S) | designed in accorda I Residential Code s and referenced stand rd Industry Piggybac onnection to base tru lified building design Standard | ance w ections lard AN k Trus iss as a er. | ith the 2015 5 R502.11.1 a ISI/TPI 1. s Connection applicable, or | and | | | No. | SEA 4584 | EER.OUT |



2020 BEFORE USE. g component, not ign into the overall nd permanent bracing arding the and BCSI Building Component 818 Soundside Road Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | PB09 | Piggyback | 1 | 1 | Job Reference (optional) | 145815360 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:02 ID:ZuGB4O8cnsqKIUNpSAm5T_zNyFy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4

5

Page: 1

-0-7-7 2-0-1 4-0-2 4-7-9 0-7-7 2-0-1 2-0-1 0-7-7 3x5 = 12 10 ∟ 3 2-0-14 2-2-8 2 -4-13 1 2x4 =2x4 =

4-0-2

Scale = 1:25.5

Plate Offsets (X, Y): [2:0-2-1.0-1-0], [3:0-2-8.Edge], [4:0-2-1.0-1-0]

| | (7, 1). [2.0 2 1,0 1 0], | [5.0-2-0,Euge], [4.0 | -2-1,0-1-0 | | | | | | | | | | |
|--|--|---|--|---|---|--|--|------------------------------------|----------------------|-----------------------------|--|---------------------------------|------------------------------------|
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC201 | 5/TPI2014 | CSI TC BC WB Matrix-MP | 0.08 0.10 0.00 | DEFL Vert(LL) Vert(CT) Horz(CT) | in n/a n/a 0.00 | (loc) - - 2 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 16 lb | GRIP 244/190 FT = 20% |
| LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 2x4 SP No.2 Structural wood shea 5-3-9 oc purlins. Rigid ceiling directly bracing. (size) 2=4-0-2, 4 10=4-0-2 Max Horiz 2=-50 (LC Max Uplift 2=-24 (LC 6=-24 (LC Max Grav 2=185 (LC (LC 1), 10 | athing directly applie applied or 10-0-0 oc 4=4-0-2, 6=4-0-2, 2 12), 6=-50 (LC 12) 2 14), 4=-20 (LC 15), 2 14), 10=-20 (LC 15) C 1), 4=191 (LC 1), 6 =191 (LC 1) | 5) 6) 6d or 7) 7) 8) 8) 9) 9) 9) 9) | This truss ha load of 12.0 overhangs n Gable requir This truss ha chord live loa * This truss f on the bottor 3-06-00 tall t chord and ar N/A | As been designed psf or 1.00 times on-concurrent wit es continuous boi is been designed ad nonconcurrent has been designe m chord in all area by 2-00-00 wide w hy other members designed in acco | for great flat roof k h other livit ttom chor for a 10.0 with any d for a livit as where vill fit betv s. | er of min roof bad of 20.0 p: ve loads. d bearing. D psf bottom other live loa e load of 20.0 a rectangle veen the botto ith the 2015 | live sf on ds. Dpsf Dm | | | | | |
| FORCES | (lb) - Maximum Com Tension 1-2=0/15, 2-3=-115/4 4-5=0/15 | pression/Maximum 43, 3-4=-116/41, | 11 | R802.10.2 a See Standar Detail for Co | nd referenced sta d Industry Piggyb nnection to base fied building desir | ndard AN ack Trus truss as a | SI/TPI 1. S Connection applicable, or | nu | | | | | |
| BOT CHORD NOTES 1) Unbalance this desig 2) Wind: AS Vasd=100 Cat. II; Eb- zone and exposed ; members Lumber D 3) TCLL: AS DOL=1.11 Lumber D 4) Unbalance design. | 2-4=-12/85 eed roof live loads have in. CE 7-10; Vult=130mph 3mph; TCDL=6.0psf; B(qv B; Enclosed; MWFR? C-C Exterior (2) zone; end vertical left and rig and forces & MWFRS DOL=1.60 plate grip DO SCE 7-10; Pr=20.0 psf (5 Plate DOL=1.15); Pf= DOL=1.15 Plate DOL=1. .; Ct=1.10 eed snow loads have be | been considered for (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterio cantilever left and rig flt exposed;C-C for for reactions shown; V=1.60 roof live load: Lumbe :20.0 psf (flat roof sn .15); Category II; Ex sen considered for th | r ght er ow: p B; is | DAD CASE(S) | Standard | | | | | Gennin | A CALLER AND A CAL | SEA 4584 | L DHNSOLUTION |

818 Soundside Road Edenton, NC 27932

April 26,2021

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | VL01 | Valley | 1 | 1 | Job Reference (optional) | l45815361 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:02 ID:7kg?9PktitZG0jUdDXkDqzzNzVE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



6-4-11

3x8 =

3x5 II

Scale = 1:28.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--------------|--|--|--|--|--------------------------------|-------------------|-------------|-------|--------|------------|---------------|---------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.73 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | BC | 0.62 | Vert(TL) | n/a | - | n/a | 999 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.01 | 4 | n/a | n/a | | |
| BCLL | 0.0 | * Code | IRC2015/TPI2014 | Matrix-MR | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 24 lb | FT = 20% |
| | 2x4 SP No 2 | | Gable req Gable stu | uires continuous bo | ttom chor | d bearing. | | | | | | |
| BOT CHORD | 2x4 SP No.2 | | 7) This truss | has been designed | for a 10.0 |) psf bottom | | | | | | |
| WEBS | 2x4 SP No.3 | | chord live | load nonconcurrent | t with any | other live loa | ids. | | | | | |
| BRACING | | | 8) * This trus | s has been designe | ed for a liv | e load of 20.0 | 0psf | | | | | |
| TOP CHORD | Structural wood s 6-0-0 oc purlins, | heathing directly applie except end verticals. | ed or on the bot 3-06-00 ta | tom chord in all area all by 2-00-00 wide v | as where vill fit betv | a rectangle | om | | | | | |
| BOT CHORD | Rigid ceiling direo bracing. | tly applied or 10-0-0 oc | enord and 9) Provide m | echanical connection | s. on (by oth standing 6 | ers) of truss t | to ioint | | | | | |
| REACTIONS | (size) 1=6-4- | 11, 4=6-4-11 | 4 and 38 l | b uplift at joint 1. | stanuing c | iz ib upilit at j | Joint | | | | | |
| | Max Horiz 1=124 | (LC 11) | 10) This truss | is designed in acco | ordance w | ith the 2015 | | | | | | |
| | Max Oplift 1=-38 | LC 10), 4=-62 (LC 14) (LC 20) 4-258 (LC 20) | Internation | nal Residential Code | e sections | R502.11.1 a | and | | | | | |
| FORCES | (lb) - Maximum C | ompression/Maximum | R802.10.2 / LOAD CASE(| 2 and referenced sta S) Standard | andard AN | ISI/TPI 1. | | | | | | |
| TOP CHORD | 1-7=-631/180, 1-7 | /=-612/182, 1-8=-148/3 | i0, | | | | | | | | | |
| | 2-8=-125/32, 2-3= | -115/43, 3-4=-137/71 | | | | | | | | | | |
| BOT CHORD | 1-4=-187/592 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| 1) Wind: ASC | CE 7-10; Vult=130m | ph (3-second gust) | | | | | | | | | | |
| Vasd=103 | mpn; ICDL=6.0psf | BCDL=6.0pst; n=25ft; | - | | | | | | | | | • • • • • • |
| Cal. II; EX | C C Exterior (2) 0.0 | 12 to 2 0 12 Interior (| r 1) | | | | | | | | , mining | 1111 |
| 3-0-12 to 3 | 3-8-0 Exterior (2) 3- | -12 to 5-0-12, intendi (| 1) | | | | | | | . 3 | WAH CA | Rollin |
| cantilever | left and right expos | ed : end vertical left and | d | | | | | | | Li | A Cas | A. 4/1/1 |
| right expo | sed;C-C for membe | rs and forces & MWFR | S | | | | | | | 31 | U. FESS | Dia |
| for reactio | ns shown; Lumber | OOL=1.60 plate grip | | | | | | | | V V | where the | verter |
| DOL=1.60 |) | | | | | | | | | | · Q · / | |
| 2) Truss des | signed for wind load | s in the plane of the tru | SS | | | | | | | | SEA | . 1 E |
| only. For | studs exposed to w | nd (normal to the face) | , | | | | | | - | | | |
| see Stand | lard Industry Gable | End Details as applicab | ole, | | | | | | | | 4584 | 14 <u>:</u> E |
| or consult | qualified building de | esigner as per ANSI/TP | 41. | | | | | | 1 | 1 | | 1. 2 |
| 3) TOLL: AS | CE 7-10; Pr=20.0 p | of (root live load: Lumbe | er | | | | | | | - 0 | · • | a:23 |
| Lumber D | OI = 1.15 Plate DOL= 1.15), 1 | -1=20.0 psr (fiat 100) sri =1 15): Category II: Evi | ow. n B: | | | | | | | 24 | VSNGIN | FERION |
| Fully Exp | · Ct=1.101 ate DOL | -1.10, Oalegoly II, EX | р D , | | | | | | | 11 | Opini | . NS IN |
| 4) Unbalance | ed snow loads have | been considered for th | is | | | | | | | 100 | 1, 5W . | OHIGH |
| design. | | | | | | | | | | | in min | mm |
| - | | | | | | | | | | | | 1 00 0004 |

818 Soundside Road Edenton, NC 27932

April 26,2021

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|
| 21040035-A | VL02 | Valley | 1 | 1 | Job Reference (optional) | 145815362 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:03 ID:fY6dy3jFxZRPPZvRfqD_HmzNzVF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



9-2-12

Scale = 1:35.6

| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC20 | 15/TPI2014 | CSI TC BC WB Matrix-MR | 0.36 0.21 0.08 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 5 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 40 lb | GRIP 244/190 FT = 20% |
|--|--|--|---------------------------------------|---|---|--|---|------------------------------------|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood shea 6-0-0 oc purlins, exit Rigid ceiling directly bracing. (size) 5=9-2-12, Max Horiz 7=188 (LC Max Uplift 5=-36 (LC 7=-31 (LC Max Grav 5=135 (LC | athing directly applie cept end verticals. applied or 10-0-0 oc 6=9-2-12, 7=9-2-12 C 11) C 11), 6=-131 (LC 14) C 10) C 23), 6=494 (LC 20) | dor & | TCLL: ASCE DOL=1.15 P Lumber DOL Fully Exp.; C Unbalanced design. Gable requir Truss to be f braced agair Gable studs This truss ha chord live load * This truss f on the bottor 3-06-00 tall l | 7-10; Pr=20.0 psf late DOL=1.15); Pf =1.15 Plate DOL=' t=1.10 snow loads have b es continuous botto ully sheathed from ist lateral movemer spaced at 4-0-0 oc s been designed for ad nonconcurrent w has been designed n chord in all areas by 2-00-00 wide will | (roof liv =20.0 p 1.15); C een cor om chor one fac on a chor or a 10.0 ith any for a liv where l fit betv | e load: Lumb sf (flat roof sr ategory II; Ex asidered for th d bearing. e or securely iagonal web). D psf bottom other live load e load of 20.0 a rectangle veen the botto | er now: .p B; ds. Dpsf | | | | | |
| FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Wind: ASC Vasd=103 Cat. II; Ex | 7=169 (LC (lb) - Maximum Com Tension 1-7=-134/64, 1-8=-1: 2-3=-113/57, 3-4=-11 6-7=-74/85, 5-6=-74/ 2-6=-375/182 CE 7-10; Vult=130mph mph; TCDL=6.0psf; BK p B; Enclosed; MWFR3 | C 20) pression/Maximum 35/18, 2-8=-126/60, 05/76, 4-5=-106/51 /85 (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior | | 0) Provide mec bearing plate 7, 36 lb uplif 1) This truss is International R802.10.2 a COAD CASE(S) | hanical connection a capable of withsta at joint 5 and 131 designed in accord Residential Code s and referenced stand Standard | (by oth inding 3 lb uplift ance w sections dard AN | ers) of truss t 11 lb uplift at jr at joint 6. ith the 2015 R502.11.1 a ISI/TPI 1. | o oint nd | | (| 2,000 | NITH CA | ROLINI |

- Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 6-5-6, Exterior (2) 6-5-6 to 9-1-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.





| Job | Truss | Truss Type | Qty | Ply | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| 21040035-A | VL03 | Valley | 1 | 1 | Job Reference (optional) | 145815363 |

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:03 ID:F?QaZDFaaefRUpS7Z?9LpOzNyWb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-6-11

Page: 1

2-3-5 4-2-9 2-3-5 1-11-3 4x5 = 2 12 10 ┌ 1-7-5 1-11-0

0-0-4



4-6-11

Scale - 1:25 5 _

| 00010 - 112010 | | | | | | | | | | | | | |
|--|---|--|--|--|---|---|--|---|----------------------|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2015/T | [PI2014 | CSI TC BC WB Matrix-MP | 0.05 0.07 0.03 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 3 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 16 lb | GRIP 244/190 FT = 20% |
| LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 4-6-11 oc purlins. Rigid ceiling directly bracing. (size) 1=4-6-11 Max Horiz 1=-43 (LI Max Uplift 1=-1 (LC (LC 14) Max Grav 1=60 (LC (LC 1)) | eathing directly appli y applied or 6-0-0 oc , 3=4-6-11, 4=4-6-11 C 10) 14), 3=-8 (LC 15), 4 C 31), 3=60 (LC 32), | 5) (6) (7) (8) - 9) - 1 10) (=-35 - 4=265 11) - | Unbalanced design. Gable requird Gable studs : This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Provide mecl bearing plate bearing plate his truss is International | snow loads have es continuous bot spaced at 4-0-0 c s been designed d nonconcurrent has been designed y 2-00-00 wide w by other members hanical connectio capable of withs t joint 3 and 35 ll designed in accoo Residential Code | been cor ttom chor oc. for a 10.0 with any d for a liv as where vill fit betv S. on (by oth ttanding 1 b uplift at rdance w e sections | hsidered for the d bearing. D psf bottom other live loa e load of 20.1 a rectangle veen the botth ers) of truss i lb uplift at jo joint 4. ith the 2015 s R502.11.1 a | his Ids. Dpsf om int int | | | | | |
| FORCES | (lb) - Maximum Cor | npression/Maximum | LOA | R802.10.2 ar A D CASE(S) | nd referenced sta Standard | Indard AN | ISI/TPI 1. | | | | | | |
| TOP CHORD | 1-2=-53/81, 2-3=-13 | 3/77 | | | | | | | | | | | |
| BOT CHORD | 1-4=-74/55, 3-4=-74 | 1/55 | | | | | | | | | | | |
| WEBS | 2-4=-159/50 | | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| Unbalance this design Wind: ASC Vasd=103 Cat. II; Ex zone and exposed ; members Lumber D Truss des | ed roof live loads have n. CE 7-10; Vult=130mpl 3mph; TCDL=6.0psf; E p B; Enclosed; MWFF C-C Exterior (2) zone end vertical left and r and forces & MWFRS OL=1.60 plate grip DC signed for wind loads | been considered for n (3-second gust) ICDL=6.0psf; h=25ft IS (envelope) exterior ; cantilever left and ri ight exposed;C-C for for reactions shown DL=1.60 in the plane of the tru | or ; or ; ; ; uss | | | | | | | | J. | OR TH CA | ROLINE L |
| a) Truss design only. For see Stand or consult 4) TCLL: AS DOL=1.15 | stude exposed to wind loads stude exposed to wind lard Industry Gable Er qualified building des CE 7-10; Pr=20.0 psf 5 Plate DOL=1.15); Pf | d (normal to the face d Details as applica igner as per ANSI/TF (roof live load: Lumb =20.0 psf (flat roof sr |), ble, PI 1. er now: | | | | | | | | N. A. | | EERON |

- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber 4) DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

11 JULIA April 26,2021

818 Soundside Road Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | 1100 Carolina Way-Roof-BB-2250 | | | | |
|------------|-------|------------|-----|-----|--------------------------------|-----------|--|--|--|
| 21040035-A | VL04 | Valley | 1 | 1 | Job Reference (optional) | 145815364 | | | |

2-6-3

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

Run: 8.5 S 0 Apr 20 2021 Print: 8.500 S Apr 20 2021 MiTek Industries, Inc. Sat Apr 24 10:50:03 ID:Y7qljLngZXJ2zvyk1XOhIEzNxsb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-1-7

Page: 1

April 26,2021

GINEEDING

818 Soundside Road Edenton, NC 27932



2x4 🍬

2-6-3

Scale = 1:22.2

| Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL | (psf) 20.0 20.0 10.0 0.0* 10.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.15 1.15 YES IRC2015/TPI2014 | CSI TC BC WB Matrix-MP | 0.06 0.08 0.00 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 3 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 10 lb | GRIP 244/190 FT = 20% |
|--|--|---|--|--|--|--|------------------------------|---|-----------------------------|--------------------------|---------------------------------|------------------------------------|
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 2-6-3 oc purlins, ex Rigid ceiling directly bracing. (size) 1=2-6-3, Max Horiz 1=66 (LC Max Uplift 1=-4 (LC Max Grav 1=95 (LC | eathing directly applied (cept end verticals. / applied or 10-0-0 oc 3=2-6-3 : 11) 14), 3=-31 (LC 14) : 1), 3=107 (LC 23) | 7) This truss has chord live lo 8) * This truss on the botto 3-06-00 tall d or 9) Provide meet bearing plate 3 and 4 lb up 10) This truss is International R802.10.2 a LOAD CASE(S) | as been designed for ad nonconcurrent with has been designed for n chord in all areas v by 2-00-00 wide will fn hy other members. thanical connection (the e capable of withstan olift at joint 1. designed in accordan Residential Code se nd referenced standar Standard | a 10. h any or a liv where it betw by oth ding 3 nce w ections ard AN | D psf bottom other live load e load of 20.0 a rectangle veen the botto ers) of truss to th lb uplift at jc ith the 2015 s R502.11.1 ar ISI/TPI 1. | ds. psf m o bint | | | | | |
| FORCES | (lb) - Maximum Cor | npression/Maximum | | | | | | | | | | |
| TOP CHORD BOT CHORD NOTES 1) Wind: AS Vasd=100 Cat. II; Ex zone and | Tension OP CHORD 1-2=-110/43, 2-3=-68/28 OT CHORD 1-3=-30/92 IOTES) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior | | | | | | | | | | | |
| zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10 4) Unbalanced snow loads have been considered for this design. 5) Gable requires continuous bottom chord bearing. 6) Gable studs spaced at 4-0-0 oc. | | | | | | | | L DHNS DHNS DHNS DHNS DHNS DHNS DHNS DHNS | | | | |

- 5 6)
- Gable studs spaced at 4-0-0 oc.

