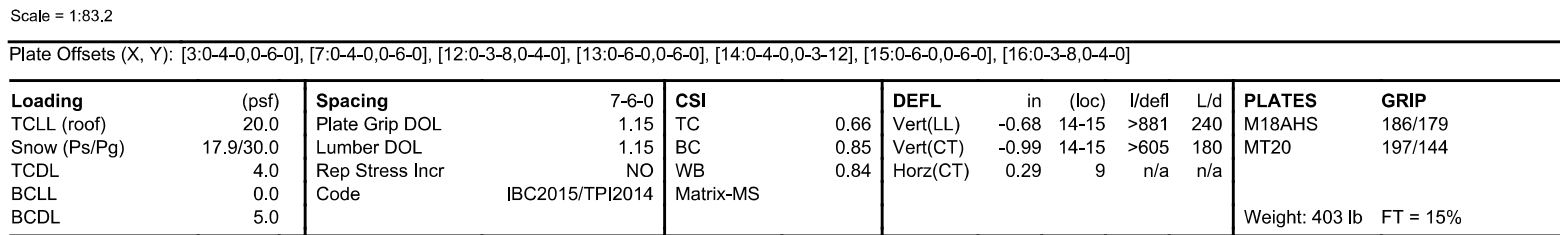


Midwest Manufacturing, Eau Claire, WI Run: 8.98 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Thu Apr 18 12:40:00 Page: 1  
ID:inNe6DEURRjgw0QwEfOXQtzPU99-xK0Kiky7ItG96E?SIGTcsXLvQoh1gpecqx 2YqzPU8D

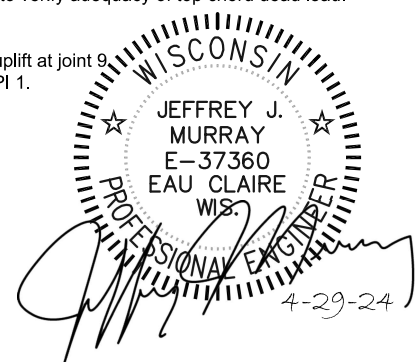


|                  |                                                                                                                                                                                                             |                |                                |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------|
| <b>LUMBER</b>    |                                                                                                                                                                                                             | <b>BRACING</b> |                                |
| TOP CHORD        | 2x8 SP 2400F 2.0E                                                                                                                                                                                           | TOP CHORD      | 2-0-0 oc purlins (2-9-1 max.). |
| BOT CHORD        | 2x8 SP 2400F 2.0E                                                                                                                                                                                           | BOT CHORD      | 6-0-0 oc bracing.              |
| WEBS             | 2x4 SPF Stud *Except* W6:2x4 SPF No.2, W7:2x4 SPF 1650F 1.5E                                                                                                                                                | WEBS           | 1 Row at midpt                 |
|                  |                                                                                                                                                                                                             | WEBS           | 2 Rows at 1/3 pts              |
| <b>REACTIONS</b> | (lb/size) 1=5038/0-5-8, (min. 0-4-8), 9=5038/0-5-8, (min. 0-4-8)                                                                                                                                            |                |                                |
|                  | Max Horiz 1=326 (LC 12)                                                                                                                                                                                     |                |                                |
|                  | Max Uplift 1=-1461 (LC 8), 9=-1461 (LC 9)                                                                                                                                                                   |                |                                |
|                  | Max Grav 1=5438 (LC 2), 9=5438 (LC 2)                                                                                                                                                                       |                |                                |
| <b>FORCES</b>    | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.                                                                                                                                |                |                                |
| TOP CHORD        | 1-2=-13327/3536, 2-3=-12297/3285, 3-25=-10508/2829, 4-25=-10273/2845, 4-5=-8650/2394, 5-6=-8650/2394, 6-26=-10273/2845, 7-26=-10508/2829, 7-8=-12297/3286, 8-9=-13327/3541                                  |                |                                |
| BOT CHORD        | 1-18=-3413/12435, 17-18=-3413/12435, 16-17=-3413/12435, 15-16=-2981/11584, 14-15=-2334/9795, 13-14=-2109/9795, 12-13=-2755/11584, 11-12=-3193/12435, 10-11=-3193/12435, 9-10=-3193/12435                    |                |                                |
| WEBS             | 2-18=-136/462, 2-16=-1206/489, 3-16=-82/1024, 3-15=-2288/825, 4-15=-354/1545, 4-14=-3075/987, 5-14=-1042/4199, 6-14=-3075/988, 6-13=-354/1545, 7-13=-2288/824, 7-12=-84/1024, 8-12=-1206/497, 8-10=-136/462 |                |                                |
|                  |                                                                                                                                                                                                             |                |                                |

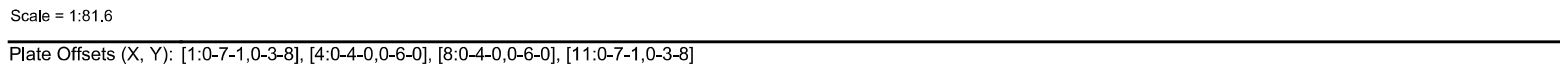
- NOTES**

  - 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; CTDL=2.4psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Ps=17.9 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Fully Exp.; Ct=1.10; Unobstructed slippery surface
  - 4) Roof design snow load has been reduced to account for slope.
  - 5) Unbalanced snow loads have been considered for this design.
  - 6) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
  - 7) All plates are MT20 plates unless otherwise indicated.
  - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1461 lb uplift at joint 1 and 1461 lb uplift at joint 9.
  - 10) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Midwest Manufacturing, Eau Claire, WI Run: 8.98 S 8.72 Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Thu Apr 18 13:05:44 Page: 1  
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|                  |                                                                                                                                                                                                                                 |                |                                |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------|
| <b>LUMBER</b>    |                                                                                                                                                                                                                                 | <b>BRACING</b> |                                |
| TOP CHORD        | 2x8 SPF No.2 *Except* T1:2x8 SP 2400F 2.0E                                                                                                                                                                                      | TOP CHORD      | 2-0-0 oc purlins (2-8-0 max.). |
| BOT CHORD        | 2x8 SP 2400F 2.0E                                                                                                                                                                                                               | BOT CHORD      | 6-0-0 oc bracing.              |
| WEBS             | 2x4 SPF Stud *Except* W1,W3,W7,W9:2x12 SP 2400F 2.0E, W8:2x4 SPF No.2                                                                                                                                                           | WEBS           | 1 Row at midpt                 |
| OTHERS           | 2x4 SPF Stud                                                                                                                                                                                                                    |                | 5-17, 7-17                     |
| <b>REACTIONS</b> |                                                                                                                                                                                                                                 |                |                                |
| (lb/size)        | 1=3799/0-5-8, (min. 0-3-5), 11=3799/0-5-8, (min. 0-3-5)                                                                                                                                                                         |                |                                |
| Max Horiz        | 1=163 (LC 12)                                                                                                                                                                                                                   |                |                                |
| Max Grav         | 1=3999 (LC 2), 11=3999 (LC 2)                                                                                                                                                                                                   |                |                                |
| <b>FORCES</b>    |                                                                                                                                                                                                                                 |                |                                |
|                  | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.                                                                                                                                                    |                |                                |
| TOP CHORD        | 1-2=-9734/0, 2-3=-10204/0, 3-4=-9317/0, 4-52=-8426/0, 5-52=-8332/0, 5-6=-6756/0, 6-7=-6756/0, 7-53=-8332/0, 8-53=-8426/0, 8-9=-9317/0, 9-10=-10204/0, 10-11=-9734/0                                                             |                |                                |
| BOT CHORD        | 1-22=0/9095, 22-50=0/9095, 21-50=0/9095, 20-21=0/9679, 19-20=0/8806, 18-19=0/8806, 17-18=0/7964, 16-17=0/7964, 15-16=0/8806, 14-15=0/8806, 13-14=0/9679, 13-51=0/9095, 12-51=0/9095, 11-12=0/9095                               |                |                                |
| WEBS             | 2-22=-327/38, 2-21=0/691, 3-21=0/510, 5-18=0/1440, 5-17=-2408/0, 6-17=0/3541, 9-13=0/510, 10-13=0/691, 10-12=-327/37, 4-18=-1300/0, 4-20=0/912, 3-20=-1103/0, 8-14=0/912, 9-14=-1103/0, 7-16=0/1440, 7-17=-2408/0, 8-16=-1300/0 |                |                                |

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=2.4psf; BCDL=3.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Ps=17.9 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Fully Exp.; Ct=1.10; Unobstructed slippery surface
  - 5) Roof design snow load has been reduced to account for slope.
  - 6) Unbalanced snow loads have been considered for this design.
  - 7) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
  - 8) All plates are MT20 plates unless otherwise indicated.
  - 9) All plates are 5x14 MT20 unless otherwise indicated.
  - 10) Horizontal gable studs spaced at 2-6-0 oc.
  - 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 12) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
  - 13) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
  - 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 15) 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

Continued on page 3

|              |       |            |     |     |                          |
|--------------|-------|------------|-----|-----|--------------------------|
| Job          | Truss | Truss Type | Qty | Ply |                          |
| QTREC0843974 | XP1SE | COMMON     | 1   | 1   | Job Reference (optional) |

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

Uniform Loads (lb/ft)

Vert: 44-50=-19, 50-51=-83 (F=-64), 47-51=-19, 1-6=-82, 6-11=-82