

Reading a MiTek Engineering Drawing

- Job name
- **Truss** label
- 3 Truss type
- **Truss quantity** 4
- Number of plies 5
- 6 Job description
- Software version
- 8a truss (feet-inches-sixteenths)
- of two consecutive panel points along the top chord (feet-inches-sixteenths)
- Drawing scale of the truss 9
- 10 Top chord slope inches of vertical rise for each 12 inches of horizontal run
- 11 Top chord member label (if shown) identification label used to distinguish pieces
- 12 Truss height the height of the truss from the top of the bearing to the top of the top chord (trusses with multiple levels of top chord will have multiple truss height dimensions) (feet-inches-sixteenths)
- **13** Plate size, orientation and type plate size in inches. The two lines denotes the direction of the plate
- 14 Continuous lateral bracing location
- 15 Web member label (if shown)
- the bearing (feet-inches-sixteenths)
- 17 Bottom chord slope inches of vertical rise for each 12 inches of horizontal run
- 18 Bearing a structural support, usually a wall or beam that is designated to carry the truss reaction loads to the foundation
- 19a Cumulated dimensions of bottom chord panel lengths are added together along the bottom chord of truss (feet-inches-sixteenths)
- 19b Panel lengths of the bottom chord each section represents the horizontal distance between the centerline of two consecutive panel points along the bottom chord (feet-inches-sixteenths) 20 Plate offsets (X, Y) - this section lists any horizontal and/or vertical plate offsets (in inches) and
- the location they occur
- 21 Design loading (PSF-pounds per square foot)
- 22 Spacing on center feet-inches-sixteenths
- 23 Design code / Design standard
- 24 Duration of Load for plate and lumber design and Repetitive Use Factor
- 25 CSI maximum Combined Stress Index for top chords, bottom chords and webs
- Span to deflection ratio expected in a member
- 27 Span to deflection ratios input allowables
- 28 MiTek plate allowables (PSI) / estimated truss weight / fabrication tolerance
- **29** Lumber requirements
- **30 Required bracing** for all members
- 31 Reaction (pounds), Bearing size input and minimum required (if shown)
- 32 Maximum Uplift and/or Maximum Horizontal Reaction if applicable and Maximum Gravity if shown
- 33 Maximum member forces Tension (+), Compression (-)
- 34 Notes
- 35 Additional loads / load cases

Cumulated dimensions of top chord – panel lengths are added together along the top chord of

8b Panel lengths of the top chord – each section represents the horizontal distance between the centerline

16 Heel height – the height from the top of bearing to the top of the top chord at the outside edge of

26 Deflection- maximum deflection expected in a member (inches), Location of maximum deflection, maximum



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