

Minimum information on truss design drawing:

Truss Design Drawings shall include, at a minimum, the information specified below:

1. Building code, CSA and TPIC Standard to which the drawing complies to.
2. Slope or depth, span and spacing.
3. Location of all joints and support locations.
4. Input and required bearing widths.
5. Software version number.
6. Specified loads, as applicable, shall include:
 - a. Top chord variable loads (including snow, live loads).
 - b. Top chord dead load.
 - c. Bottom chord live load due to limited accessibility.
 - d. Bottom chord dead load.
 - e. Wind loads
 - f. Other lateral loads, including drag strut loads.
 - g. Statement of whether special loading requirements have been checked including but not limited to unbalanced loading, minimum concentrated loads, etc.
 - h. All additional loads and their points of application as applicable.
7. Adjustments to wood member and metal connector plate design value for conditions of use.
8. Adjustments made to material strength due to load sharing.
9. Connection requirements for truss ply to ply
10. Maximum factored reaction force and direction, including maximum factored uplift reaction forces where applicable.
11. Maximum CSI on top chord, bottom chord and webs.
12. Maximum un-factored reaction force and direction for each load type.
13. Metal connector plate type, manufacturer, size, and thickness or gauge, and the dimensioned location of each metal connector plate except where symmetrically located relative to the joint interface.
14. Size, species and grade for each wood member.
15. Calculated maximum vertical and horizontal deflection for variable load and total load as applicable.
16. Maximum axial tension and compression forces in the Truss members.
17. Fabrication Tolerance used per Appendix G
18. Required Permanent Individual Truss Member Restraint location shall be shown for lateral bracing. Fastening of the lateral brace, T/I-brace, scab brace, L-brace shall be specified.
19. Drawing identification.
20. Design equation used for combined bending and compression member design
21. Output error messages when design exceeds limits.