

SPECIFICATIONS:

Design standards conform with applicable provisions of TPIC, CSA 086-01 and NBCC (Latest edition)

Epic Truss Systems certifies that trusses manufactured to its design are suitable for the use specifically indicated provided that:

1. The truss loading, as well as load transfer mechanism, is indicated on the drawing.
2. The building matches the type of building requested by the manufacturer, which is indicated on the drawing.
3. Compression chords, typically Top Chords, are braced using a continuous rigid diaphragm sheathing, or are braced at intervals not exceeding 12.5 times their thickness [18.75" o.c.], or as specified on the individual design. Tension chords, typically Bottom Chords, are braced using a continuous rigid diaphragm sheathing, or are braced at intervals not exceeding 80 times their thickness, 10'-0" o.c. maximum, or as specified on the individual design. All other members are to be braced as indicated by the individual design. Bracing that is referred to here is to be securely anchored to prevent overall movement of the structures as a whole.
4. A properly designed bracing system, maintaining the trusses in a plumb position and providing resistance to wind and sway is installed. Bracing appearing on Epic Truss Systems drawings is used as a component of the truss and forms an integral part of the truss component design.
5. Proper care and handling of trusses during shipping and erection are the responsibilities of the erectors respectively. Procedures consistent with good workmanship and good building practices are the responsibility of the building contractor.
6. Trusses are supported where indicated on the design sheet and anchored where considered necessary by the designer of the overall structure. Bearing sizes and bearing details shown on the design are adequate or more than adequate to prevent crushing of the truss member. This does not, however, take into account the overall stability of the supporting structure. Epic Truss does not design supporting structures.
7. Plates used by Epic Truss are supplied by Alpine and are of that type, size and gauge as indicated on the drawings and placed on both faces of the truss. The truss is manufactured by a TPIC authorized fabricator in accordance with the approved design.
8. Dimensions and geometry of the installed truss match that of the design sheet.
9. Brace Locations and Lengths:
 - (a) One(1) continuous lateral brace, (CLB) to be placed at the center of the web length.
 - (b) Two(2) CLB's to be placed at third points of web length.
 - (c) Three(3) CLB's to be placed at quarter points of web length.
 - (d) T-Brace, Scab Brace & L-Braces are to be a minimum of 80% of the length of the web.

10. MINIMUM DEFLECTION REQUIREMENTS:

Maximum truss deflection shall be based on the greater of live or dead load deflection for trusses; 1-1/3 live plus dead load deflection for HSB and Sectional/Mobile home roof trusses; live load deflection for LHO farm trusses and live load deflection for HSB floor trusses.

MAXIMUM DEFLECTION shall be limited as follows:

- a) With plaster or gypsum board ceiling finish:
 - Part 4: LL= L/360 TL= L/240
 - Part 9: TL= L/360
- b) Other than plaster or gypsum board ceiling finish:
 - Part 4 including Low Human Occupancy: LL= L/240 TL= L/180
 - part 9: TL= L/360
- c) Part 4 floor truss design:
 - With plaster or gypsum board ceiling: LL= L/360 TL= L/240
 - Other than plaster or gypsum board ceiling: LL= L/240 TL= L/180
- d) Cantilever deflection shall be limited to length of cantilever/120.
- e) Overhang Deflection - Maximum overhang deflection shall be based on total load and shall be limited to overhang length/120.
- f) Top Chord Panel Deflection - Maximum top chord panel deflection shall be based on total load and shall be limited to panel length/180.
- g) Bottom Chord Panel Deflection - Maximum bottom chord panel deflection shall be based on total load and shall be limited to panel length/360.
- h) Horizontal Deflection at Supports - Maximum horizontal total load deflection shall not exceed 25 mm.

11. For lumber sizes 2x10 and 2x12 MSR Grades, the assigned tension design values are based on those as listed in Table 5.3.2 in CSA 086, latest edition, provided the lumber is subject to the appropriate level of qualification and daily quality control testing for tension strength, as specified in NLGA SPS 2.

- * TPIC-96 Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses, Limit States Design, 1996 Edition. Truss Plate Institute Of Canada.
- * TPIC-2007 Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses, Limit States Design, 2007 Edition. Truss Plate Institute Of Canada.
- ** CSA 086-01 CSA Standard 086-01 Engineering Design in Wood (Limit States Design)
 - + NBCC - The National Building Code Of Canada, 1995 Edition.
 - + NBCC - The National Building Code Of Canada, 2005 Edition.
 - + BCBC - The British Columbia Building Code, 2006 Edition.
 - + ABC - The Alberta Building Code, 2006 Edition.
 - + OBC - The Ontario Building Code, 2006 Edition.

Maximum overhang deflection for HSB trusses and Sectional/Mobile home trusses shall be based on 1-1/3 live plus dead load and shall be limited to overhang length/120.

Visit <http://www.epictruss.com/Specs> for the latest information and warnings



ALLIANCE TRUSS

"Combining the Best of"

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*****WARNING*** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (HANDLING, INSTALLING AND BRACING), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONDRIED DR., SUITE 200, MADISON, WI. 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.**

*****IMPORTANT*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. EPIC TRUSS SYSTEMS LTD. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSSES IN CONFORMANCE WITH TPIC; OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF CSA 086-01 (CANADIAN STANDARDS ASSOCIATION), NBCC (LATEST EDITION), AND TPIC. ALPINE CONNECTORS ARE MADE OF 20GA ASTM A653 GR40 GALV. STEEL EXCEPT AS NOTED. APPLY CONNECTORS TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION CONNECTORS PER DRAWINGS 160 A-Z. THE SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY PARTICULAR BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER TPIC 96.**

REF

DATE 05/06/09

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