

Overview

General Notes:

- 1 Spans are based on continuous support of compression flange over the full length of the joist.
- 2 Joist deflection limitations are based upon L/240 for the total load (TL) and L/360 or L/480 for live load (LL).
- 3 For two equal spans, the listed span is the distance from either end to the center support, with the joist continuous over the center support.
- 4 Joists must be braced against rotation at all supports.
- 5 For two equal, continuous span conditions, alternate span live load has been considered.
- 6 The strength increase due to cold work of forming was incorporated for flexural strength as applicable per the AISI-NASPEC A7.2.
- 7 The yield stress (33ksi or 50ks) used to calculate tabulated values is indicated in each table.
- 8 A 3-1/2" bearing length was used at all support locations in the preparation of these tables. Joist flanges must be fastened to the support.
- 9 A punchout pattern for ClarkDietrich joists is a 4" long by 1-1/2" wide oval.
- 10 Unpunched joists are available, but must be indicated when ordering.
- 11 Web punchouts located near a bearing location may need reinforcement.
- 12 Listed capacities are calculated per AISI-NASPEC S100-2007 with 2010 supplement. Stud distortional buckling based on an assumed $K_{\phi}=0$.
- 13 Joist bridging opposite the sheathed flange is recommended at a maximum of 8 ft. o.c. when sheathing is applied to only the compression flange.

