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Table 6-A is the same as AISC Manual Table 6-2, except it provides the available strength for $F_y = 65$ ksi and $F_u = 80$ ksi (ASTM A913 Grade 65). Discussion on the use of this table can be found in Part 6 of the AISC Manual. Table 6-B. Available Strength for Members Subject to Axial, Shear, Flexural and Combined Forces—W-Shapes

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The v15.1 Companion to the AISC Steel Construction Manual is a resource that supplements the 15th Edition Steel Construction Manual and is keyed to the 2016 Specification for Structural Steel Buildings. The v15.1 Companion is an update of the v15.0 Design Examples with the design examples and tables split into two separate volumes. Now available in print! Purchase Print Set. Volume 1: Design ...

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Table 3-23 Shears, Moments and Deflections 1. SIMPLE BEAM — UNIFORMLY DISTRIBUTED LOAD Total Equiv. Uniform Load 3-213 Moment 2. SIMPLE BEAM — 0.5774/ 3. SIMPLE BEAM — (atcenter) (at center) LOAD INCREASING UNIFORMLY TO ONE END Total Equiv. Uniform Load *12 5 W14 384 E/ $\frac{1}{2} w_x$ 13 24 EI 16W -1.0aw w wx2 2 WI . 0.0130 $\frac{1}{2} W_x$ 180 • (12 $\frac{1}{4}$ 212 W/ 1 2x2 2 312 60 E/ W_x — -0.557 — —0.519 at ...

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Aisc Manual Table Tables are arranged with LRFD and ASD designs presented side-by-side, for consistency with the AISC Manual. Design with ASD and LRFD are based on the same nominal strength for each element so that the only differences

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The 2016 American Institute of Steel Construction 's Specification for Structural Steel Buildings provides an integrated treatment of allowable strength design (ASD) and load and resistance factor design (LRFD), and replaces earlier Specifications. As indicated in Chapter B of the Specification, designs can be made according to either ASD or LRFD provisions. This ANSI-approved Specification ...

[ANSI/AISC 360-16: Specification for Structural Steel Buildings](#)

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AMERICAN INSTITUTE OF STEEL CONSTRUCTION . 3-214
DESIGN OF FLEXURAL MEMBERS Table 3-23 {continued)
Shears, Moments and Deflections 4. SIMPLE BEAM-
UNIFORM LOAD PARTIALLY DISTRIBUTED

BEAM DIAGRAMS AND FORMULAS

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AISC Manual Table 10-1 includes checks for the limit states of bearing, shear yielding, shear rupture, and block shear rupture on the angles, and shear on the bolts. Try 3 rows of bolts and 2L4 32 4 (SLBB). LRFD ASD $R_n = 76.4$ kips > 60.0 kips o.k. $R_n = 50.9$ kips > 40.0 kips

EXAMPLE II.A-1 ALL-BOLTED DOUBLE-ANGLE CONNECTION Given

The AISC Load and Resistance Factor Design (LRFD) Specification for Structural Steel Buildings is based on reliability theory. As have all AISC Specifications, this Specification has been based upon past successful usage, advances in the state of knowledge, and changes in design practice. This Specification has been developed as a consensus docu-

LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION

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