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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

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Members Subject to Axial, Shear,
Flexural and Combined Forces—W-
Shapes

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Part II is devoted primarily to connection examples that draw on the tables from the AISC Manual, recommended design

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procedures, and the breadth of the AISC Specification. The chapters of Part II are labeled II-A, II-B, II-C, etc. Part III addresses aspects of design that are linked to the performance of a building as a whole.

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16.1-iii Specification for Structural Steel Buildings, July 7, 2016 AMERICAN INSTITUTE OF STEEL CONSTRUCTION PREFACE (This Preface is not part of ANSI/AISC 360-16, Specification for Structural Steel Buildings, but is included for informational purposes only.)

ANSI/AISC 360-16: Specification for

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Structural Steel Buildings

For angle legs $\geq 5"$, the potential for two rows of bolts exists. Thus, the gage "g1" is analogous to "g" for the other angle leg, and gage "g2" is the spacing between the first and second row of bolts. (See illustration and table in AISC 13th Edition Manual page 1-46.)

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CONSTRUCTION . 3-214 DESIGN OF
FLEXURAL MEMBERS Table 3-23
{continued) Shears, Moments and
Deflections 4. SIMPLE BEAM-UNIFORM
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W-SHAPE SELECTION TABLES 3-19 Table
3-2 Zx W-Shapes $F_y = 50$ ksi Selection
by Zx Zx Shape in.3 M_{px} / Ω_b $\phi_b M_{px}$
 M_{rx} / Ω_b $\phi_b M_{rx}$ BF/ Ω_b ϕ_b BF kip-ft kip-ft
kip-ft kip-ft kips kips ASD LRFD ASD
LRFD ASD LRFD L_p L_r I_x ft ft in.4 V_{nx} / Ω_v

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$\phi_v V_n$ kips kips ASD LRFD W36×925 h
4130 10300 15500 5920 8900 47.6 71.7
15.0 107 73000 2600 3900 W36×853 h
3920 9780 14700 5680 8530 48.3 72.7
15.1 100 ...

Steel Construction Manual 2017 - Nxtbook Media

Steel Manual: Useful Tables and

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Concepts to Know Learning how to efficiently use the Steel Manual (AISC Steel Construction Manual 14th Edition) is very important in steel design. Below are some helpful AISC tables/sections to know for the PE/SE exam, college exams, or everyday engineering practice.

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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

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changes in design practice. This Specification has been developed as a consensus docu-

LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATION

Table 2-6 from AISC 14th Edition Manual
. AISC FAQ Steel Talks 66 From Table 2-6

- A325 Bolts $F_u = 120 \text{ ksi}$ - $F_{nt} = 0.75$

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$x \ 120 \text{ ksi} = 90 \text{ ksi} \bullet \text{ A490 Bolts } F_u = 150 \text{ ksi}$
 $R_n = F_{nt} A_b \text{ Eq. (J3-1) Nominal unthreaded body area of bolt.}$

AISC - seain.org

Refer to part 3, Column Design, of the AISC 2nd Edition "Manual of Steel Construction - Load & Resistance Factor

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Design” for a discussion of the design strength of columns. The symbols in these tables follow those used in the AISC “Manual”.

LRFD Column Load Tables - cousesteel.com

KL is determined from AISC Table C-A-7.1 or AISC Figures C-A-7.1 and C-

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A-7.2 on p. 158. F_e is the elastic buckling stress = ... Adapted from Steel Construction Manual, 14th ed., AISC, 2011. 156 CIVIL ENGINEERING

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Edition 2011 Aisc CE 414: Structural Steel Design (Spring 2020) AISC Manual Using Table 6-1 Aisc Steel Manual 14th

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Answer the following questions use AISC
Manual and AISC specifications, make

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sure to refer the design table used (no detailed hand calculations are required).

a) What is the nominal axial compressive strength of an HP16 * 121 steel column with an effective length $L_a = 20$ ft in all directions and $F_y = 50$ ksi?

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