

File Help

AISC Manual Version

☐ Ver. 7 ☐ Ver. 8 ☒ Ver. 9

Mode

☒ US ☐ Metric

Print List

Add to Print List

W5x16 US

dbl Click to delete
from print list.

Shape Categories

- W Shapes
- M Shapes
- S Shapes
- HP Shapes
- C Shape
- MC Shape
- L Shapes
- Pipe
- T Shape from W Shape
- T Shape from MT Shape
- T Shape from S Shape
- Tube Square
- Tube Rect.
- Double Angle Eq. Leg
- Double Angle Uneq. Long leg back to back
- Double Angle Uneq. Short leg back to back

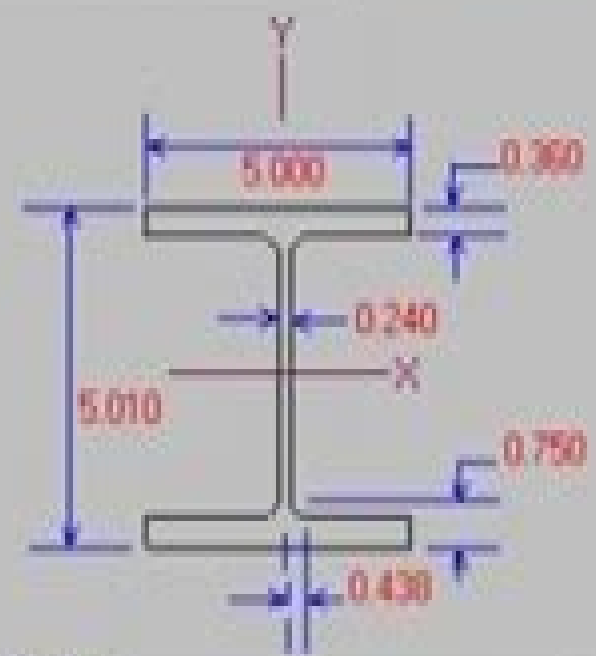
Member

W5x16

Properties

Area = 4.680 in²
WT = 15.96 lb/ft
D = 5.010 in
Bf = 5.000 in
Tw = 0.240 in
Tf = 0.360 in
Ix = 21.30 in⁴
Sx = 8.510 in³
Rx = 2.130 in
Iy = 7.510 in⁴
Sy = 3.000 in³
Ry = 1.270 in
K = 0.750 in
K1 = 0.438 in
Zx = 9.590 in³
Zy = 4.570 in³
Rt = 1.370 in

Commercial



Display

☐ Labels ☒ Values

Click on the shape category to start!
Then select your member from the
drop-down member box.

Note, if only a label appears when the
values option is selected, this means the
value is not in the database.

Aisc 7th Edition W Shapes Properties

Minjie Lin



Aisc 7th Edition W Shapes Properties:

Dimensions and Properties ; New W, HP and WT Shapes American Institute of Steel Construction,1978 **Tables of Properties for Designing W, M, S, and HP Shapes, and Allowable Stress Design Selection** American Institute of Steel Construction,1974 **Ductile Design of Steel Structures, 2nd Edition** Michel Bruneau, Chia-Ming Uang, Rafael Sabelli, 2011-08-01 Comprehensive coverage of the background and design requirements for plastic and seismic design of steel structures Thoroughly revised throughout Ductile Design of Steel Structures Second Edition reflects the latest plastic and seismic design provisions and standards from the American Institute of Steel Construction AISC and the Canadian Standard Association CSA The book covers steel material cross section component and system response for applications in plastic and seismic design and provides practical guidance on how to incorporate these principles into structural design Three new chapters address buckling restrained braced frame design steel plate shear wall design and hysteretic energy dissipating systems and design strategies Eight other chapters have been extensively revised and expanded including a chapter presenting the basic seismic design philosophy to determine seismic loads Self study problems at the end of each chapter help reinforce the concepts presented Written by experts in earthquake resistant design who are active in the development of seismic guidelines this is an invaluable resource for students and professionals involved in earthquake engineering or other areas related to the analysis and design of steel structures **COVERAGE INCLUDES** Structural steel properties Plastic behavior at the cross section level Concepts methods and applications of plastic analysis Building code seismic design philosophy Design of moment resisting frames Design of concentrically braced frames Design of eccentrically braced frames Design of steel energy dissipating systems Stability and rotation capacity of steel beams Basics of Structural Steel Design Samuel H. Marcus, 1981 Modern Steel Construction ,2008 **Design Manual for Structural Tubing** American Iron and Steel Institute. Committee of Steel Pipe Producers, 1974 Intended to assist designers in selecting the best available structural components for a given design problem and to provide an overall understanding of the role of steel tubular members in structural design **Steel Beam-column Joints in Seismic Moment Resisting Frames** Keh-Chyuan Tsai, Egor Paul Popov, University of California, Berkeley. Earthquake Engineering Research Center, 1988 Dimensions and Properties, New W, HP and WT Shapes American Institute of Steel Construction, 1970 Annual Report American Institute of Steel Construction, 1978 **Light Agricultural and Industrial Structures** G. Nelson, H.B. Manbeck, N.F. Meador, 2012-12-06 This book is an outgrowth of a much earlier book Farm Structures by H J Barre and L L Sammet published by John Wiley it might be difficult for instructors and students to cover all of the chapters in a typical three credit hour course The instructor will need to assess his own situation and scheduling constraints More or less time could be spent on chapters one through five depending on the capability the students already have in analysis of statically determinate and indeterminate structures Two to three weeks might then be allocated for study of each of the last six

chapters dealing with design in steel reinforced concrete and wood National Union Catalog ,1973 Includes entries for maps and atlases **Two Beam-to-column Web Connections** Keh-Chyuan Tsai,Egor Paul Popov,1986 **Steel Buildings** Stanley W. Crawley,Robert Morton Dillon,Winfred O. Carter,1977 Catalog of Higher Education Application Programs ,1988 VAX Software Source Book ,1986 *Report* ,1988 Applied Strength of Materials Robert L. Mott,Joseph A. Untener,2021-07-04 This text is an established bestseller in engineering technology programs and the Seventh Edition of Applied Strength of Materials continues to provide comprehensive coverage of the mechanics of materials Focusing on active learning and consistently reinforcing key concepts the book is designed to aid students in their first course on the strength of materials Introducing the theoretical background of the subject with a strong visual component the book equips readers with problem solving techniques The updated Seventh Edition incorporates new technologies with a strong pedagogical approach Emphasizing realistic engineering applications for the analysis and design of structural members mechanical devices and systems the book includes such topics as torsional deformation shearing stresses in beams pressure vessels and design properties of materials A big picture overview is included at the beginning of each chapter and step by step problem solving approaches are used throughout the book FEATURES Includes the big picture introductions that map out chapter coverage and provide a clear context for readers Contains everyday examples to provide context for students of all levels Offers examples from civil mechanical and other branches of engineering technology Integrates analysis and design approaches for strength of materials backed up by real engineering examples Examines the latest tools techniques and examples in applied engineering mechanics This book will be of interest to students in the field of engineering technology and materials engineering as an accessible and understandable introduction to a complex field

Ductile Design of Steel Structures Michel Bruneau (Ph.D),Chia-Ming Uang,Andrew Stuart Whittaker,1998 Ensure ductile behavior in any steel structure Engineer earthquake resistant structures using today s most advanced ductile steel design techniques This guide gives you the latest seismic resistant design criteria based on research into the recent Northridge and Kobe earthquakes You get fingertip access to the ductile properties of steel essential data on the plastic behavior of cross sections and systematic methods and applications of plastic analysis This time saving resource walks you through the seismic design of ductile braced frames and moment resisting frames provides the special detailing requirements needed to ensure satisfactory plastic behavior gives you an overview of special steel based energy dissipation systems and much more

Index and Directory of U.S. Industry Standards ,1987 Engineering Journal ,1982

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