

AISC Manual Version

☐ Ver. 7 ☐ Ver. 8 ☒ Ver. 9

Mode

☒ US ☐ Metric

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

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

Member

W5x16

Properties

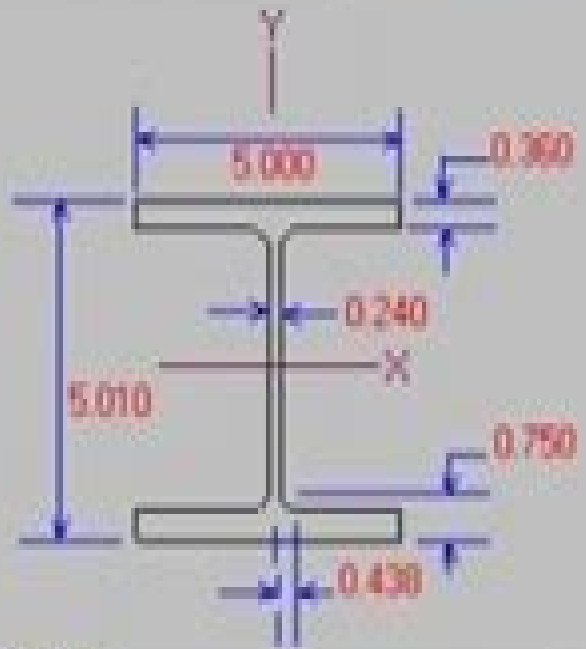
Area = 4.680 in²
WT = 15.96 lb/ft
D = 5.010 in
Bf = 5.000 in
Tw = 0.240 in
Tf = 0.360 in
Ix = 21.30 in⁴
Sx = 8.510 in³
Rx = 2.130 in
Iy = 7.510 in⁴
Sy = 3.000 in³
Ry = 1.270 in
K = 0.750 in
K1 = 0.438 in
Zx = 9.590 in³
Zy = 4.570 in³
Rt = 1.370 in

Print List

W5x16 US

Add to Print List

dbl Click to delete
from print list.



Display

☐ Labels ☒ Values

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

G. Nelson, H.B. Manbeck, N.F. Meador



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 **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 Annual Report American Institute of Steel

Construction, 1978

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2020 — Discharge increases downstream in most rivers, as tributaries join the main channel and add water. Sediment load (the amount of sediment carried ...