

AISC STEEL SHAPES (SI)

STEEL CONSTRUCTION



MANUAL

AMERICAN INSTITUTE
OF
STEEL CONSTRUCTION
INC.

THIRTEENTH EDITION

REFERENCES

PREPARED BY:
ENGR. B.G GARWAGEO, MSCE
Assistant Professor

AISC STEEL SHAPES – W-SECTIONS

| Section | W _y kg/m | A mm ² | d mm | b _f mm | t _f mm | t _w mm | I _x 10 ⁸ mm ⁴ | I _y 10 ⁷ mm ⁴ | S _x 10 ³ mm ³ | r _x mm | I _x 10 ⁸ mm ⁴ | I _y 10 ⁷ mm ⁴ | S _y 10 ³ mm ³ | r _y mm | r _z mm |
|---------|------------------------|----------------------|---------|----------------------|----------------------|----------------------|---|---|---|----------------------|---|---|---|----------------------|----------------------|
| W44x335 | 499 | 63300 | 1120 | 404 | 45.0 | 26.2 | 12900 | 26500 | 23100 | 452 | 499 | 3870 | 2460 | 88.6 | 108 |
| W44x290 | 433 | 55100 | 1110 | 400 | 40.1 | 22.0 | 11200 | 23100 | 20300 | 452 | 433 | 3360 | 2160 | 88.6 | 107 |
| W44x262 | 390 | 49800 | 1100 | 400 | 36.1 | 19.9 | 10000 | 20800 | 18200 | 450 | 384 | 2980 | 1920 | 88.1 | 106 |
| W44x230 | 343 | 43700 | 1090 | 400 | 31.0 | 18.0 | 8660 | 18000 | 15900 | 445 | 331 | 2570 | 1660 | 87.1 | 105 |
| W40x590 | 883 | 112000 | 1090 | 424 | 62.0 | 45.5 | 21000 | 45200 | 38300 | 432 | 1050 | 7680 | 4950 | 96.5 | 118 |
| W40x503 | 748 | 95500 | 1070 | 417 | 56.1 | 39.1 | 17300 | 38000 | 32400 | 427 | 849 | 6460 | 4080 | 94.5 | 114 |
| W40x431 | 642 | 81900 | 1050 | 411 | 59.9 | 34.0 | 14500 | 32100 | 27500 | 422 | 703 | 5370 | 3410 | 92.7 | 112 |
| W40x397 | 591 | 73500 | 1040 | 409 | 55.9 | 31.0 | 13300 | 29500 | 25600 | 422 | 641 | 4920 | 3130 | 92.5 | 111 |
| W40x372 | 554 | 71000 | 1030 | 409 | 52.1 | 29.5 | 12300 | 27500 | 23900 | 419 | 591 | 4540 | 2900 | 91.4 | 110 |
| W40x362 | 530 | 68400 | 1030 | 406 | 51.1 | 28.4 | 12000 | 26000 | 23300 | 419 | 574 | 4420 | 2830 | 91.4 | 110 |
| W40x324 | 483 | 61500 | 1020 | 404 | 46.0 | 25.4 | 10700 | 23900 | 21000 | 417 | 508 | 3920 | 2510 | 90.9 | 108 |
| W40x297 | 443 | 56300 | 1010 | 401 | 41.9 | 23.6 | 9660 | 21800 | 19200 | 414 | 454 | 3520 | 2260 | 89.9 | 107 |
| W40x277 | 412 | 52600 | 1010 | 401 | 40.1 | 21.1 | 9120 | 20500 | 18000 | 417 | 433 | 3340 | 2160 | 90.9 | 108 |
| W40x249 | 371 | 47400 | 1000 | 400 | 36.1 | 19.1 | 8160 | 18400 | 16300 | 414 | 383 | 2980 | 1920 | 90.2 | 107 |
| W40x215 | 321 | 41000 | 991 | 400 | 31.0 | 16.5 | 6950 | 15800 | 14100 | 411 | 334 | 2560 | 1660 | 89.9 | 106 |
| W40x199 | 296 | 37900 | 983 | 400 | 27.2 | 16.5 | 6200 | 14200 | 12600 | 406 | 289 | 2250 | 1450 | 87.6 | 105 |
| W40x192 | 284 | 34800 | 1060 | 315 | 64.0 | 36.1 | 13400 | 28000 | 23600 | 409 | 334 | 3470 | 2120 | 67.1 | 83.8 |
| W40x171 | 254 | 33000 | 1040 | 310 | 54.1 | 31.0 | 10300 | 23400 | 19800 | 404 | 268 | 2820 | 1740 | 65.3 | 81.5 |
| W40x157 | 238 | 31800 | 1040 | 307 | 54.1 | 30.0 | 10200 | 23100 | 19700 | 406 | 266 | 2790 | 1720 | 65.3 | 81.5 |
| W40x144 | 218 | 29600 | 1030 | 305 | 49.0 | 28.9 | 9120 | 20900 | 17700 | 404 | 234 | 2460 | 1530 | 64.8 | 80.3 |

APPENDIX A – AISC STEEL SHAPES

| Section | W _y kg/m | A mm ² | d mm | b _f mm | t _f mm | t _w mm | I _x 10 ⁸ mm ⁴ | I _y 10 ⁷ mm ⁴ | S _x 10 ³ mm ³ | r _x mm | I _x 10 ⁸ mm ⁴ | I _y 10 ⁷ mm ⁴ | S _y 10 ³ mm ³ | r _y mm | r _z mm |
|---------|------------------------|----------------------|---------|----------------------|----------------------|----------------------|---|---|---|----------------------|---|---|---|----------------------|----------------------|
| W40x278 | 413 | 53100 | 1020 | 305 | 46.0 | 26.2 | 8530 | 19100 | 14700 | 401 | 217 | 2290 | 1430 | 64.0 | 79.4 |
| W40x264 | 390 | 49900 | 1020 | 302 | 43.9 | 24.4 | 8070 | 18500 | 13900 | 401 | 205 | 2160 | 1350 | 64.0 | 79.2 |
| W40x235 | 358 | 44600 | 1010 | 302 | 40.1 | 21.1 | 7240 | 16400 | 14300 | 404 | 185 | 1920 | 1220 | 64.5 | 79.0 |
| W40x211 | 314 | 40100 | 1000 | 300 | 36.1 | 19.1 | 6450 | 14800 | 12900 | 401 | 162 | 1720 | 1080 | 63.8 | 78.0 |
| W40x183 | 272 | 34800 | 991 | 300 | 30.5 | 16.5 | 5490 | 12700 | 11100 | 399 | 138 | 1420 | 918 | 63.2 | 77.2 |
| W40x167 | 249 | 31800 | 980 | 300 | 26.2 | 16.5 | 4830 | 11400 | 9830 | 389 | 118 | 1250 | 785 | 61.0 | 75.7 |

Aisc Steel Design 11

Michael R. Lindeburg



Aisc Steel Design 11:

Structural Steel Design Abi Aghayere, 2025-05-29 Essential knowledge of steel framed structure design is a cornerstone for architectural civil and structural engineers as well as for students planning careers in structural design and construction. Structural Steel Design Fourth Edition delivers a comprehensive understanding of structural steel design starting with the fundamentals and progressing to the design of a complete structural system. It emphasizes not just the individual steel elements or components but their integration within the broader context of the entire structure. By working through the chapters and corresponding design project tasks, readers will complete the design of a full steel structure, allowing them to grasp the connections between discrete components and the larger system. This approach reinforces the importance of seeing the big picture in structural design. Encouraged by the American Institute for Steel Construction, this book goes beyond traditional textbook exercises by offering real world examples, project based exercises, and open ended problems that challenge the reader to make decisions and navigate the iterative nature of structural design. Practical details and real world end of chapter problems reflect the types of challenges encountered in professional engineering practice, making this text not just an academic resource but a practical guide for aspiring engineers. Handbook of Structural Engineering W.F. Chen, E.M. Lui, 2005-02-28 Continuing the best selling tradition of the Handbook of Structural Engineering, this second edition is a comprehensive reference to the broad spectrum of structural engineering, encapsulating the theoretical, practical, and computational aspects of the field. The contributors cover traditional and innovative approaches to analysis, design, and rehabilitation. New topics include fundamental theories of structural dynamics, advanced analysis, wind and earthquake resistant design, design of prestressed structures, high performance steel, concrete and fiber reinforced polymers, semirigid frame structures, structural bracing, and structural design for fire safety. **Steel Design Handbook** Akbar R. Tamboli, 1997 Very Good. No Highlights or Markup. All pages are intact. Composite Construction in Steel and Concrete IX Markus Knobloch, Ulrike Kuhlmann, Wolfgang Kurz, Markus Schafer, 2024-12-23 Die erfolgreiche internationale Konferenzreihe über Verbundkonstruktionen aus Stahl und Beton ist ein wichtiges Forum für Forscher, Praktiker und Ingenieure, um ihre Forschungsergebnisse, praktischen Erfahrungen und Innovationen im Zusammenhang mit Verbundkonstruktionen aus Stahl und Beton auszutauschen und zu diskutieren. Stahl-Beton-Verbundkonstruktionen sind ein wichtiger Faktor bei der Planung von Gebäuden und Infrastrukturbauwerken. Bedeutende Fortschritte in Forschung und Entwicklung haben das Wissen über das Tragverhalten von Verbundkonstruktionen erweitert. Viele Aspekte werden inzwischen gut verstanden und in der Entwurfspraxis und in Normen weltweit umgesetzt. Während anderes wie z. B. die Anwendung von Hochleistungsmaterialien oder zerlegbare und wiederverwendbare Verbundbauteile weitere Untersuchungen erfordern, diese Trends zeigen sich in den Konferenzbeiträgen. Die 62 Beiträge in diesem Buch decken ein breites Spektrum an Themen ab, darunter Verbundträger, Verbundstützen, Verbunddecken, Verbindungen, Scherverbindungen, Brandverhalten, Erdbebenverhalten, Ermüdung und Bruch.

Normung Verbundbrücken innovative Hybridstrukturen numerische Untersuchungen und praktische Anwendungen Die Beiträge wurden vom wissenschaftlichen Beirat begutachtet und wurden zum Teil auf der Grundlage der Diskussionsergebnisse von der Konferenz angepasst Somit fasst das vorliegende Buch den aktuellen Stand der Technik im Verbundbau weltweit zusammen wie er auf der 9 Internationalen Konferenz für Verbundbau in Stahl und Beton die von der Ruhr Universität Bochum der Universität Stuttgart der TU Kaiserslautern und der Universität Luxemburg veranstaltet wurde vorgestellt wurde und repräsentiert die Arbeit von Autoren aus 18 Ländern **Engineering Journal**, 2002 PPI PE Civil Study Guide, 17th Edition Michael R. Lindeburg, 2022-09-30 Maximize your efficiency while studying for the PE Civil CBT exam by pairing the PE Civil Study Guide with Michael R Lindeburg's PE Civil Reference Manual PE Civil Study Guide Seventeenth Edition provides a strategic and targeted approach to exam preparation so that you gain a competitive edge With hundreds of entries containing helpful explanations derivations of equations and exam tips the Study Guide connects the NCEES exam specifications for all five PE Civil exams to the NCEES Handbook approved design standards and PPI's civil reference manuals The Study Guide is organized to make the most of your time and is an essential tool for a successful exam experience Relevant sections from the NCEES Handbook design standards and PPI's reference manuals are clearly indicated in both summary lists for each exam specification and in each of the detailed entries covering a specific concept or equation Referenced PPI Products PE Civil Reference Manual Structural Depth Reference Manual for the PE Civil Exam Construction Depth Reference Manual for the PE Civil Exam Transportation Depth Reference Manual for the PE Civil Exam Water Resources and Environmental Depth Reference Manual for the PE Civil Exam Referenced Codes and Standards 2015 International Building Code ICC A Policy on Geometric Design of Highways Streets AASHTO AASHTO Guide for Design of Pavement Structures AASHTO AASHTO LRFD Bridge Design Specifications Building Code Requirements Specification for Masonry Structures ACI 530 Building Code Requirements for Structural Concrete Commentary ACI 318 Design Construction of Driven Pile Foundations FHWA Design Construction of Driven Pile Foundations Volume I FHWA Design Control of Concrete Mixtures PCA Design Loads on Structures During Construction ASCE 37 Formwork for Concrete ACI SP 4 Foundations Earth Structures Design Manual 7 02 Geotechnical Aspects of Pavements FHWA Guide for the Planning Design Operation of Pedestrian Facilities AASHTO Guide to Design of Slabs on Ground ACI 360R Guide to Formwork for Concrete ACI 347R Highway Capacity Manual TRB Highway Safety Manual AASHTO Hydraulic Design of Highway Culverts FHWA LRFD Seismic Analysis Design of Transportation Geotechnical Features Structural Foundations Reference Manual FHWA Manual on Uniform Traffic Control Devices FHWA Minimum Design Loads for Buildings Other Structures ASCE SEI 7 National Design Specification for Wood Construction AWC Occupational Safety Health Regulations for the Construction Industry OSHA 1926 Occupational Safety Health Standards OSHA 1910 PCI Design Handbook Precast Prestressed Concrete PCI Recommended Standards for Wastewater Facilities TSS Roadside Design Guide AASHTO Soils Foundations Reference

Manual Volume I II FHWA Steel Construction Manual AISC Structural Welding Code Steel AWS *Applied Structural Steel Design* Leonard Spiegel, George F. Limbrunner, 1986 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine **Steel Design for Structural Engineers** Bogdan O. Kuzmanović, Nicholas Willems, 1983 *Schaum's Outline of Structural Steel Design* Abraham J. Rokach, 1991 Confusing Textbooks Missed Lectures Tough Test Questions Fortunately for you there s Schaum s Outlines More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum s is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum s Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up to date developments in your course field In depth review of practices and applications Fully compatible with your classroom text Schaum s highlights all the important facts you need to know Use Schaum s to shorten your study time and get your best test scores Schaum s Outlines Problem Solved Modern Steel Construction ,2009 **"Code of Massachusetts regulations, 2003"** ,2003 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **"Code of Massachusetts regulations, 2000"** ,2000 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **"Code of Massachusetts regulations, 2007"** ,2007 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 "Code of Massachusetts regulations, 2004" ,2004 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 Engineering News-record ,1930 "Code of Massachusetts regulations, 1999" ,1999 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 Structural Steel Designer's Handbook, Sixth Edition Roger L. Brockenbrough, 2019-10-25 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product A fully updated source for structural steel design information Thoroughly revised for the latest advances this comprehensive resource contains information essential to the design of steel structures The book lays out the fundamentals of structural steel fabrication and erection followed by detailed design methods for steel beams columns tension components roof systems and connections Design examples throughout the book clearly demonstrate how to apply complex code provisions in the field You will get clear explanations of AISC 360 16 the AASHTO Standard Specification for Structural Steel Bridges the AISI Cold Formed Steel Standards ASCE 7 16 and the 2018 IBC Structural Steel Designer s Handbook Sixth Edition covers Properties of structural steels Effects of steelmaking and fabrication Fabrication and erection Connections Building codes loads and fire

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