

# AISC STEEL SHAPES (SI)

# STEEL CONSTRUCTION



## MANUAL

AMERICAN INSTITUTE  
OF  
STEEL CONSTRUCTION  
INC.

THIRTEENTH EDITION

REFERENCES

PREPARED BY:  
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Assistant Professor

# AISC STEEL SHAPES – W-SECTIONS

Section	W <sub>y</sub> kg/m	A mm <sup>2</sup>	d mm	b <sub>f</sub> mm	t <sub>f</sub> mm	t <sub>w</sub> mm	I <sub>x</sub> 10 <sup>8</sup> mm <sup>4</sup>	I <sub>y</sub> 10 <sup>7</sup> mm <sup>4</sup>	S <sub>x</sub> 10 <sup>3</sup> mm <sup>3</sup>	r <sub>x</sub> mm	I <sub>x</sub> 10 <sup>8</sup> mm <sup>4</sup>	I <sub>y</sub> 10 <sup>7</sup> mm <sup>4</sup>	S <sub>y</sub> 10 <sup>3</sup> mm <sup>3</sup>	r <sub>y</sub> mm	r <sub>z</sub> 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 <sub>y</sub> kg/m	A mm <sup>2</sup>	d mm	b <sub>f</sub> mm	t <sub>f</sub> mm	t <sub>w</sub> mm	I <sub>x</sub> 10 <sup>8</sup> mm <sup>4</sup>	I <sub>y</sub> 10 <sup>7</sup> mm <sup>4</sup>	S <sub>x</sub> 10 <sup>3</sup> mm <sup>3</sup>	r <sub>x</sub> mm	I <sub>x</sub> 10 <sup>8</sup> mm <sup>4</sup>	I <sub>y</sub> 10 <sup>7</sup> mm <sup>4</sup>	S <sub>y</sub> 10 <sup>3</sup> mm <sup>3</sup>	r <sub>y</sub> mm	r <sub>z</sub> 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

**Roman Wölfel**



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**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 w hrend anderes wie z B die Anwendung von Hochleistungsmaterialien oder zerlegbare und wiederverwendbare Verbundbauteile weitere Untersuchungen erfordern diese Trends zeigen sich in den Konferenzbeitr gen Die 62 Beitr ge in diesem Buch decken ein breites Spektrum an Themen ab darunter Verbundtr ger Verbundst tzen Verbunddecken Verbindungen Scherverbindungen

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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

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## **Table of Contents Aisc Steel Design 11**

1. Understanding the eBook Aisc Steel Design 11
  - The Rise of Digital Reading Aisc Steel Design 11
  - Advantages of eBooks Over Traditional Books
2. Identifying Aisc Steel Design 11
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Aisc Steel Design 11
  - User-Friendly Interface
4. Exploring eBook Recommendations from Aisc Steel Design 11
  - Personalized Recommendations
  - Aisc Steel Design 11 User Reviews and Ratings
  - Aisc Steel Design 11 and Bestseller Lists
5. Accessing Aisc Steel Design 11 Free and Paid eBooks

- Aisc Steel Design 11 Public Domain eBooks
  - Aisc Steel Design 11 eBook Subscription Services
  - Aisc Steel Design 11 Budget-Friendly Options
6. Navigating Aisc Steel Design 11 eBook Formats
    - ePub, PDF, MOBI, and More
    - Aisc Steel Design 11 Compatibility with Devices
    - Aisc Steel Design 11 Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Aisc Steel Design 11
    - Highlighting and Note-Taking Aisc Steel Design 11
    - Interactive Elements Aisc Steel Design 11
  8. Staying Engaged with Aisc Steel Design 11
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Aisc Steel Design 11
  9. Balancing eBooks and Physical Books Aisc Steel Design 11
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Aisc Steel Design 11
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Aisc Steel Design 11
    - Setting Reading Goals Aisc Steel Design 11
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Aisc Steel Design 11
    - Fact-Checking eBook Content of Aisc Steel Design 11
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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