

AISC STEEL SHAPES (SI)

STEEL CONSTRUCTION



MANUAL

AMERICAN INSTITUTE
OF
STEEL CONSTRUCTION
INC.

THIRTEENTH EDITION

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AISC STEEL SHAPES – W-SECTIONS

Section	W _x kg/m	A _g mm ²	d mm	b _f mm	t _f mm	t _w mm	I _x 10 ⁹ mm ⁴	I _y 10 ⁷ mm ⁴	S _x 10 ³ mm ³	r _x mm	I _x 10 ⁹ mm ⁴	I _y 10 ⁷ mm ⁴	S _y 10 ³ mm ³	r _y mm	r _{ts} 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	82.0	45.5	21000	45200	38300	432	1050	7680	4950	96.5	118
W40x503	748	95500	1070	417	70.1	39.1	17300	38000	32400	427	849	6460	4080	94.5	114
W40x431	642	81900	1050	411	59.9	34.0	14500	32100	27700	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	401	36.1	19.1	8160	18400	16300	414	383	2980	1930	90.2	107
W40x215	321	41000	991	401	31.0	16.5	6950	15800	14100	411	334	2560	1660	89.9	106
W40x199	296	37900	983	401	27.2	16.5	6200	14200	12600	406	289	2250	1450	87.6	105
W40x190	284	34800	1060	315	44.0	36.1	12400	28000	23600	409	334	3470	2130	67.1	83.8
W40x131	494	63000	1040	310	54.1	31.0	10300	23400	19800	404	268	2820	1740	65.3	81.5
W40x127	466	61900	1040	307	54.1	30.0	10200	23100	19700	406	266	2790	1720	65.5	81.5
W40x124	436	55600	1030	305	49.0	28.9	9120	20800	17700	404	234	2460	1530	64.8	80.3

APPENDIX A – AISC STEEL SHAPES

Section	W _x kg/m	A _g mm ²	d mm	b _f mm	t _f mm	t _w mm	I _x 10 ⁹ mm ⁴	I _y 10 ⁷ mm ⁴	S _x 10 ³ mm ³	r _x mm	I _x 10 ⁹ mm ⁴	I _y 10 ⁷ mm ⁴	S _y 10 ³ mm ³	r _y mm	r _{ts} mm
W40x278	413	53100	1020	305	46.0	26.2	8530	19500	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	1950	1230	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	34400	991	300	30.5	16.5	5490	12700	11100	399	138	1430	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

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Robert Noyes



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Swamidas,2016-04-19 *Essentials of Offshore Structures* Framed and Gravity Platforms examines the engineering ideas and offshore drilling platforms for exploration and production This book offers a clear and acceptable demonstration of both the theory and application of the relevant procedures of structural fluid and geotechnical mechanics to offshore structures It

Steel Buildings Stanley W. Crawley,Robert Morton Dillon,Winfred O. Carter,1977 *Small and Micro Hydroelectric Power Plants* Robert Noyes,1980 **Simplified Design of Steel Structures** James Ambrose,1997 The seventh edition of

Simplified Design of Steel Structures is an excellent reference for architects and engineers who need information about the common uses of steel for the structures of buildings The clear and concise format benefits readers who have limited backgrounds in mathematics and engineering This new edition has been updated to reflect changes in standards industry technology and construction practices including new research in the field examples of general building structural systems and the use of computers in structural design Specifically Load and Resistance Factor Design LRFD and Allowable Stress Design ASD are now covered Engineering News-record ,1981 **Mineral Processing Technology** Abraham Adewale

Adeleke,2023-05-31 Mineral processing technology is a branch of applied science that deals with the principles and practice of separating useful minerals from primary solid ore mineral resources This book introduces the science and technology of processing solid minerals to concentrates of grades suitable for industrial extraction of metal values and other non metallic products It also includes case studies typical process flowsheets aspects of the processing of tailings arising from mineral processing plants and worked examples Features Includes science and technology of processing solid minerals to concentrates of grades suitable for industrial extraction of metal values and other non metallic products Provides a logical progression from basic to advanced concepts in mineral processing Designed to stimulate students to think as mineral processing engineers in training Explores sustainable mineral processing and circular economy in mineral processing Contains worked examples that clearly illustrate the various theories presented and help readers develop problem solving skills in mineral processing This book is aimed at professionals and senior undergraduate students in metallurgy mining mineral processing chemistry and chemical engineering **A Practical Course in Advanced Structural Design** Tim

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