

TABLE 1
Availability of Shapes, Plates and Bars According to
ASTM Structural Steel Specifications

Steel Type	ASTM Designation	F_y Minimum Yield Stress (ksi)	F_u Tensile Stress ^a (ksi)	Shapes					Plates and Bars										
				Group per ASTM A6					To 1/8" Incl.	Over 1/8" to 3/16" Incl.	Over 3/16" to 1/4" Incl.	Over 1/4" to 1/2" Incl.	Over 1/2" to 2" Incl.	Over 2" to 2 1/2" Incl.	Over 2 1/2" to 4" Incl.	Over 4" to 5" Incl.	Over 5" to 6" Incl.	Over 6" to 8" Incl.	Over 8"
				1	2	3	4	5											
Carbon	A36	32	58-80																
		36	58-80 ^c																
High-strength Low-alloy	A441	42	60-85																
		40	60																
		42	63																
		46	67																
	A572 Grade	50	70																
		42	60																
		50	65																
		60	75																
Corrosion-resistant High-strength Low-alloy	A242	65	80																
		42	63																
		46	67																
	A588	50	70																
		42	63																
Quenched & Tempered Low-alloy	A852 ^d	46	67																
Quenched & Tempered Alloy	A514 ^d	70	90-110																
		90	100-130																
		100	110-130																

^aMinimum unless a range is shown.

^bIncludes bar-size shapes.

^cFor shapes over 426 lbs./ft, minimum of 58 ksi only applies.

^dPlates only.

Available.

Not available.

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Basic Theory of Plates and Elastic Stability Mr. Rohit Manglik, 2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **The Civil Engineering Handbook** W.F. Chen, J.Y. Richard Liew, 2002-08-29 Providing extensive coverage of all major areas of civil engineering the second edition of this award winning handbook features contributions from leading professionals and academicians and is packed with formulae data tables and definitions vignettes on topics of recent interest and additional sources of information It includes a wealth of material in areas such as coastal engineering polymeric materials computer methods shear stresses in beams and pavement performance evaluation Its wide range of information makes it an essential resource for anyone working in civil structural or environmental engineering **Guide to Stability Design Criteria for Metal Structures** Theodore V.

Galambos, 1998-06-15 This book provides simplified and refined procedures applicable to design and to accessing design limitations and offers guidance to design specifications codes and standards currently applied to the stability of metal structures *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

Design of Steel Structures Elias G. Abu-Saba, 2012-12-06 This book is intended for classroom teaching in architectural and civil engineering at the graduate and undergraduate levels Although it has been developed from lecture notes given in structural steel design it can be useful to practicing engineers Many of the examples presented in this book are drawn from the field of design of structures Design of Steel Structures can be used for one or two semesters of three hours each on the undergraduate level For a two semester curriculum Chapters 1 through 8 can be used during the first semester Heavy emphasis should be placed on Chapters 1 through 5 giving the student a brief exposure to the consideration of wind and earthquakes in the design of buildings With the new federal requirements vis a vis wind and earthquake hazards it is beneficial to the student to have some understanding of the underlying concepts in this field In addition to the class lectures the instructor should require the student to submit a term project that includes the complete structural design of a multi story building using standard design procedures as specified by AISC Specifications Thus the use of the AISC Steel Construction Manual is a must in teaching this course In the second semester Chapters 9 through 13 should be covered At

the undergraduate level Chapters 11 through 13 should be used on a limited basis leaving the student more time to concentrate on composite construction and built up girders

Recommended Postearthquake Evaluation and Repair Criteria for Welded Steel Moment-frame Buildings SAC Joint Venture. Guidelines Development Committee, 2000
Interim Guidelines, 1995

Civil Engineering Donald G. Newnan, 2004 This volume is a study guide for the civil engineer taking the PE exam Solved problems throughout each chapter reinforce the concepts discussed in the text

PPI PE Structural Reference Manual, 10th Edition - Complete Review for the NCEES PE Structural Engineering (SE) Exam Alan Williams, 2021-09-21 The NCEES SE Exam is Open Book You Will Want to Bring This Book Into the Exam Alan Williams PE Structural Reference Manual Tenth Edition STRM10 offers a complete review for the NCEES 16 hour Structural Engineering SE exam This book is part of a comprehensive learning management system designed to help you pass the PE Structural exam the first time PE Structural Reference Manual Tenth Edition STRM10 features include Covers all exam topics and provides a comprehensive review of structural analysis and design methods New content covering design of slender and shear walls Covers all up to date codes for the October 2021 Exams Exam adopted codes and standards are frequently referenced and solving methods including strength design for timber and masonry are thoroughly explained 270 example problems Strengthen your problem solving skills by working the 52 end of book practice problems Each problem s complete solution lets you check your own solving approach Both ASD and LRFD SD solutions and explanations are provided for masonry problems allowing you to familiarize yourself with different problem solving methods Topics Covered Bridges Foundations and Retaining Structures Lateral Forces Wind and Seismic Prestressed Concrete Reinforced Concrete Reinforced Masonry Structural Steel Timber Referenced Codes and Standards Updated to October 2021 Exam Specifications AASHTO LRFD Bridge Design Specifications AASHTO Building Code Requirements and Specification for Masonry Structures TMS 402 602 Building Code Requirements for Structural Concrete ACI 318 International Building Code IBC Minimum Design Loads for Buildings and Other Structures ASCE 7 National Design Specification for Wood Construction ASD LRFD and National Design Specification Supplement Design Values for Wood Construction NDS North American Specification for the Design of Cold Formed Steel Structural Members AISI PCI Design Handbook Precast and Prestressed Concrete PCI Seismic Design Manual AISC 327 Special Design Provisions for Wind and Seismic with Commentary SDPWS Steel Construction Manual AISC 325

Structural Steel Designer's Handbook Roger Brockenbrough, Frederick Merritt, 1999-12-02 The only A Z guide to structural steel design Find a wealth of practical techniques for cost effectively designing steel structures from buildings to bridges in Structural Steel Designer s Handbook by Roger L Brockenbrough and Frederick S Merritt The Handbook s integrated approach gives you immediately useful information about steel as a material how it s fabricated and erected how to analyze a structure to determine internal forces and moments from dead live and seismic loads how to make detailed design calculations to withstand those forces This new third edition introduces you to the latest developments in

seismic design including more ductile connections and high performance steels offers an expanded treatment of welding helps you understand design requirements for hollow structural sections and for cold formed steel members and explores numerous design examples You get examples for both Load and Resistance Factor Design LRFD and Allowable Stress Design ASD

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