

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																
	A529	42	60-85																
High-strength Low-alloy	A441	40	60																
		42	63																
		46	67																
		50	70																
	A572 Grade	42	60																
		50	65																
		60	75																
		65	80																
Corrosion-resistant High-strength Low-alloy	A242	42	63																
		46	67																
		50	70																
	A588	42	63																
		46	67																
		50	70																
Quenched & Tempered Low-alloy	A852 ^d	70	90-110																
Quenched & Tempered Alloy	A514 ^d	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.

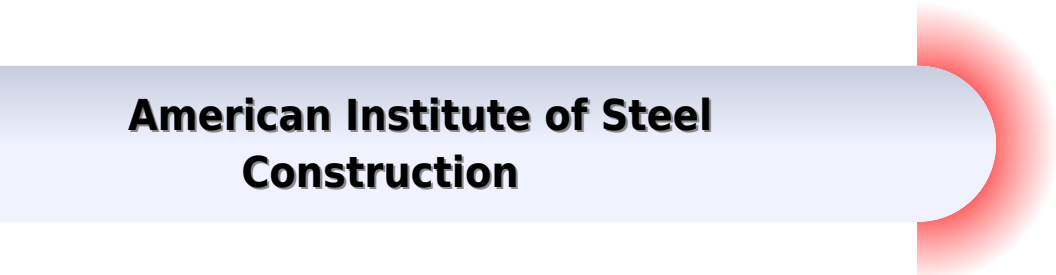
^dPlates only.

Available.

Not available.

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**American Institute of Steel
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Seismic Design for Buildings, 1993 **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 **Six-minute Solutions for Structural I PE Exam Problems** Christine A. Subasic, 2006 Essential preparation for the Structural PE exam s breadth and depth problems

Structural Design Criteria for Buildings, 1992 **Design of Structural Steel Joints** Ashoke Kumar Dasgupta, 2024-12-18 This book presents a systematic method of learning how to design perfect joints for steel buildings in industrial projects It describes the types of joints details different types of jointing and covers the mechanics of joints supported by worked out examples for different situations It also includes design charts for full strength joints of all standard sections The design and details presented in this book conform to Indian codes and US standards for general building and structural steel work Features Provides details on connection design principles and applications from an application point of view Covers practical aspects and good engineering practices related to connection design Explains mechanics of joints with illustrations and sketches Includes design charts for full strength member joints of standard sections Covers worked out

examples sketches with supporting calculations of all typical connections from roofs to base plates This book is aimed at professionals in civil and structural engineering steel structure design and detailing

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

Steel Buildings Stanley W. Crawley,Robert M. Dillon,1993 This volume presents the general principles of structural analysis and their application to the design of low and intermediate height building frames The text is accompanied by software for the analysis of axial forces displacement and the bending moment and the determination of shear

Manual of Steel Construction American Institute of Steel Construction,1989

Structural Analysis of Historic Buildings J. Stanley Rabun,2000-02-21 Structural Analysis of Historic Buildings offers the most complete detailed and authentic data available on the materials calculation methods and design techniques used by architects and engineers of the nineteenth and early twentieth centuries It provides today s building professionals with information needed to analyze modify and certify historic buildings for modern use Among the many important features of this book not available in any other single volume are More than 350 line drawings and diagrams taken directly from original sources such as the Carnegie Steele Company s Pocket Companion 1893 and Frank Kidder s The Architect s and Builder s Pocketbook 1902 Hard to find data on period structural components such as cast iron columns and beams wrought iron columns and beams and fireproof terra cotta floor arches Methods for determining what kind of loads structural components were originally designed to bear and methods to determine if they are still capable of performing as intended Extensive coverage of historical foundation systems and empirical design methods for load bearing masonry buildings For any building professional involved in the rapidly growing field of restoring preserving and adapting historic buildings Structural Analysis of Historic Buildings is an invaluable structural handbook

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