



Table 1-8 (continued)
WT-Shapes
Dimensions

Shape	Area, <i>A</i>	Depth, <i>d</i>	Stem			Flange			Distance		Mark- able Gage	
			Thickness, <i>t_w</i>	<i>t_w</i> %	Area	width, <i>b_f</i>	Thickness, <i>t_f</i>	<i>k</i>				
								<i>k₁</i>	<i>k₂</i>			
	in. ²	in.	in.	in.	in. ²	in.	in.	in.	in.	in.		
WT6×11 ¹	3.34	6.16	67%	0.260	7/8	7/8	1.60	4.03	4	0.425	7/8	27 1/2"
WT6×9.5 ²	2.79	6.06	67%	0.235	7/8	7/8	1.43	4.01	4	0.390	7/8	27 1/2"
WT6 ³	3.36	6.00	6	0.230	7/8	7/8	1.32	3.99	4	0.365	7/8	27 1/2"
WT6 ⁴	2.66	5.66	6	0.200	7/8	7/8	1.19	3.87	4	0.335	7/8	27 1/2"
WT5×16	16.5	5.66	57%	0.735	7/8	7/8	4.29	10.4	10 1/2	1.25	1 1/2	17 1/2"
WT5×10	14.7	5.55	57%	0.690	7/8	7/8	3.77	10.3	10 1/2	1.12	1 1/2	17 1/2"
WT5	13.0	5.42	57%	0.605	7/8	7/8	3.28	10.3	10 1/2	0.990	1	17 1/2"
WT5×10.5	11.3	5.30	57%	0.530	7/8	7/8	2.81	10.2	10 1/2	0.870	7/8	17 1/2"
WT5	10.0	5.20	57%	0.470	7/8	7/8	2.44	10.1	10 1/2	0.770	7/8	17 1/2"
WT5	8.64	5.11	57%	0.420	7/8	7/8	2.15	10.1	10 1/2	0.680	7/8	17 1/2"
WT5 ⁵	7.90	5.05	5	0.370	7/8	7/8	1.87	10.0	10	0.610	7/8	17 1/2"
WT5×10.5	7.21	4.99	5	0.340	7/8	7/8	1.70	10.0	10	0.560	7/8	17 1/2"
WT5×12.5	8.60	5.05	5	0.350	7/8	7/8	1.77	8.02	8	0.620	7/8	17 1/2"
WT5×10.5	5.73	4.96	5	0.315	7/8	7/8	1.56	7.99	8	0.530	7/8	17 1/2"
WT5×10.5	4.85	4.87	47%	0.290	7/8	7/8	1.41	7.96	8	0.430	7/8	17 1/2"
WT5×10	4.42	5.34	57%	0.300	7/8	7/8	1.37	5.81	5 1/2	0.510	7/8	27 1/2"
WT5 ⁶	3.81	5.17	57%	0.260	7/8	7/8	1.24	5.77	5 1/2	0.440	7/8	27 1/2"
WT5 ⁷	3.24	5.09	57%	0.240	7/8	7/8	1.20	5.75	5 1/2	0.360	7/8	27 1/2"
WT5×10.5 ²	2.81	5.12	57%	0.250	7/8	7/8	1.26	4.02	4	0.390	7/8	27 1/2"
WT5×10.5 ²	2.50	5.06	5	0.240	7/8	7/8	1.21	4.01	4	0.360	7/8	27 1/2"
WT5×10.5 ²	2.21	5.00	5	0.230	7/8	7/8	1.15	4.00	4	0.270	7/8	27 1/2"
WT5 ⁸	1.77	4.94	47%	0.190	7/8	7/8	0.938	3.96	4	0.210	7/8	27 1/2"
WT4×13.5	9.84	4.50	47%	0.570	7/8	7/8	2.57	8.28	8 1/2	0.930	7/8	17 1/2"
WT4	8.54	4.38	47%	0.510	7/8	7/8	2.23	8.22	8 1/2	0.810	7/8	17 1/2"
WT4	7.66	4.25	47%	0.460	7/8	7/8	1.70	8.11	8 1/2	0.660	7/8	17 1/2"
WT4	5.87	4.13	47%	0.360	7/8	7/8	1.49	8.07	8 1/2	0.560	7/8	17 1/2"
WT4×13.5	5.14	4.06	4	0.310	7/8	7/8	1.26	8.02	8	0.490	7/8	17 1/2"
WT4×13.5 ²	4.56	4.00	4	0.280	7/8	7/8	1.14	8.00	8	0.430	7/8	17 1/2"
WT4×14	4.10	4.03	4	0.260	7/8	7/8	1.15	6.34	6 1/2	0.460	7/8	27 1/2"
WT4 ⁹	3.54	3.97	4	0.240	7/8	7/8	0.971	6.30	6 1/2	0.400	7/8	27 1/2"

¹ Shape is suitable for compression with $F_y = 50$ ksi.

² Shape exceeds compact limit for flange with $F_y = 50$ ksi.

* The actual size, combination and orientation of fastener components should be compared with the geometry of the cross section to ensure compatibility.

* Slower strength controlled by buckling effects ($C_b = 1.0$) with $F_y = 50$ ksi.

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Fundamentals of Machine Elements, Third Edition Steven R. Schmid,Bernard J.

Hamrock, Bo. O. Jacobson, 2014-07-18 New and Improved SI Edition Uses SI Units Exclusively in the Text Adapting to the changing nature of the engineering profession this third edition of Fundamentals of Machine Elements aggressively delves into the fundamentals and design of machine elements with an SI version This latest edition includes a plethora of pedagogy providing a greater understanding of theory and design Significantly Enhanced and Fully Illustrated The material has been organized to aid students of all levels in design synthesis and analysis approaches to provide guidance through design procedures for synthesis issues and to expose readers to a wide variety of machine elements Each chapter contains a quote and photograph related to the chapter as well as case studies examples design procedures an abstract list of symbols and subscripts recommended readings a summary of equations and end of chapter problems What's New in the Third Edition Covers life cycle engineering Provides a description of the hardness and common hardness tests Offers an inclusion of flat groove stress concentration factors Adds the staircase method for determining endurance limits and includes Haigh diagrams to show the effects of mean stress Discusses typical surface finishes in machine elements and manufacturing processes used to produce them Presents a new treatment of spline pin and retaining ring design and a new section on the design of shaft couplings Reflects the latest International Standards Organization standards Simplifies the geometry factors for bevel gears Includes a design synthesis approach for worm gears Expands the discussion of fasteners and welds Discusses the importance of the heat affected zone for weld quality Describes the classes of welds and their analysis methods Considers gas springs and wave springs Contains the latest standards and manufacturer's recommendations on belt design chains and wire ropes The text also expands the appendices to include a wide variety of material properties geometry factors for fracture analysis and new summaries of beam deflection

North American Tunneling 2018 Proceedings Alan

Howard, Brett Campbell, Derek Penrice, Matthew Preedy, Jim Rush, 2018-06-24 Your timely source for more cost effective and less disruptive solutions to your underground infrastructure needs The North American Tunneling Conference is the premier biennial tunneling event for North America bringing together the brightest most resourceful and innovative minds in the tunneling industry It underscores the important role that the industry plays in the development of underground spaces transportation and conveyance systems and other forms of sustainable underground infrastructure With every conference the number of attendees and breadth of topics grow The authors experts and leaders in the industry share the latest case histories expertise lessons learned and real world applications from around the globe Crafted from a collection of 126 papers presented at the conference this book takes you deep inside the projects It includes challenging design issues fresh approaches on performance future projects and industry trends as well as ground movement and support structure analysis risk and cost management rock tunnels caverns and shafts TBM technology and water and wastewater conveyance

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Ductile Design of Steel Structures, 2nd Edition Michel Bruneau, Chia-Ming Uang, S.E. Rafael Sabelli, 2011-07-14 Comprehensive coverage of the background and design requirements for plastic and seismic design of steel structures Thoroughly revised throughout Ductile Design of Steel Structures Second Edition reflects the latest plastic and seismic design provisions and standards from the American Institute of Steel Construction AISC and the Canadian Standard Association CSA The book covers steel material cross section component and system response for applications in plastic and seismic design and provides practical guidance on how to incorporate these principles into structural design Three new chapters address buckling restrained braced frame design steel plate shear wall design and hysteretic energy dissipating systems and design strategies Eight other chapters have been extensively revised and expanded including a chapter presenting the basic seismic design philosophy to determine seismic loads Self study problems at the end of each chapter help reinforce the concepts presented Written by experts in earthquake resistant design who are active in the development of seismic guidelines this is an invaluable resource for students and professionals involved in earthquake engineering or other areas related to the analysis and design of steel structures

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Optimization of Design for Better Structural Capacity Belgasmia, Mourad, 2018-11-16 Despite the development of advanced methods models and algorithms optimization within structural engineering remains a primary method for overcoming potential structural failures With the overarching goal to improve capacity limit structural damage and assess the structural dynamic response further improvements to these methods must be entertained Optimization of Design for Better Structural Capacity is an essential reference source that discusses the advancement and augmentation of optimization designs for better behavior of structure

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