See AISC Table 1-1 below. Which of the following steel sections will carry the highest strong axis moment? Assume strong axis bending and the failure stress is the same for each.

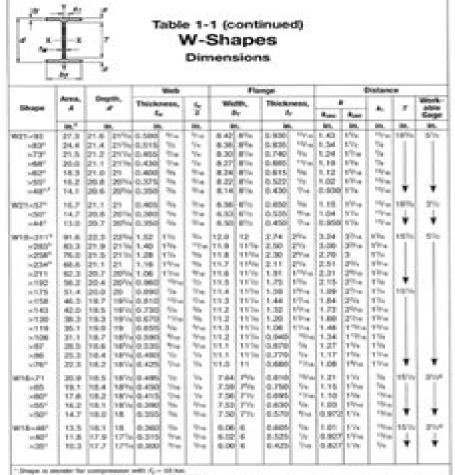
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7.06(53.5)

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| 100 100. | Criteria | | Aven X-X | | | | Act T-T | | | | Sec. | A. | Properties | |
|-------------|----------|-------------|----------|-------------------|--------|--|---|-------------------------|-----------|---------------|-----------|------------|--|----------------|
| | | | 4 | Si inc. 1 | de. | J | 10.7 | Jan. 1 | y In. | I I | in. | les. | Dr. T | G _a |
| | 200 | The . | | | | | | | | | | | | |
| 90 | 4.30 | 30.3 | 2070 | 192 | 8.7% | 227 | 10.9 | 20.1 | 1.04 | 34.7 | 3.24 | 30.7 | 4.00 | 394 |
| 4.5 | 5.00 | 36.4 | 1400 | 121 | 8.67 | 106 | 85.4 | 19.3 | 1.00 | 30.5 | 2.3% | 39.6 | 4.34 | 5000 |
| 73 | 1.40 | 41.2 | 1600 | 191 | 5.64 | 100 | 30.6 | 17.0 | 2.81 | 26.6 | 2.10 | 20.5 | 3.60 | 7419 |
| 68 | 6.04 | 43.6 | 1400 | 140 | 8.60 | 160 | 64.7 | 15.7 | 1.80 | 34.4 | 2.17 | 20.4 | 2.46 | 6700 |
| 621 | 6.79 | 45.0 | 1300 | 107 | 8.54 | 1944 | 37.8 | 14.0 | 1.77 | 29.7 | 2.15 | 30.4 | 1.83 | 5000 |
| 50 | 7.87 | 90.0 | 1140 | 110 | 6.40 | 126 | 48.4 | 15.8 | 1,73 | 18.4 | 2.19 | 20.3 | 1.24 | 4000 |
| 48 | 9.47 | 53.6 | 900 | 90.0 | 8.2% | 107 | 38.7 | 9.52 | 1.00 | 34.9 | 2.06 | 30.2 | 6.800 | 3695 |
| 92 | 5.04 | 46.5 | 1170 | 1111 | 6.36 | 129 | 30.6 | 9.36 | 1.35 | 14.8 | 1.66 | 30.5 | 1.77 | 3596 |
| 50 | 6.70 | 49.4 | 964 | 94.5 | 8.38 | 3700 | 24.0 | 7.84 | 1,30 | 10.2 | 1.64 | 20.3 | 3.34 | 2500 |
| 44 | 7.22 | 53.6 | 60 | 00.00 | 8.06 | 95.4 | 30.7 | 6.37 | 1.26 | 10.2 | 1.60 | 20.3 | 0.779 | 2019 |
| 501 | 2.79 | 104 | 6670 | 624 | 8.79 | 754 | 796 | 100 | 2.95 | 202 | 3.53 | 1966 | 100 | 7500 |
| 290.0 | 2.38 | 91.3 | 6179 | 585 | 1.47 | 62% | 754 | 719 | 2000 | 100 | 3.67 | 79.4 | 104 | 40000 |
| 200 | 2.3% | 52.5 | 5650 | \$84 | 8.30 | 4071 | 628 | NOT | 2,66 | 1996 | 3.40 | 79.2 | 103 | 1,000 |
| 234 | 2.7% | 13.8 | 4900 | 406 | 5.44 | 549 | 5004 | 100.46 | 2.85 | 1949 | 3.37 | 79.0 | 78.7 | 3000 |
| 277 | | 16.1 | 4000 | 400 | 8.36 | 4000 | 400 | 85.3 | 2.60 | 1130 | 3.00 | 16.6 | 50.6 | 4540 |
| 190 | 3.37 | 167 | 3670 | 300 | 0.39 | 442 | 440 | 76.0 | 2.79 | 119 | 3.25 | 16.7 | 44.7 | 3000 |
| 125 | 3.56 | 18.0 | 3450 | 344 | 8.30 | 204 | 391 | 48.8 | 2.7% | 1006 | 3.3% | 19.4 | 35.6 | 10000 |
| 159 | 3.90 | 19.8 | 3000 | 2700 | 0.12 | 256 | 347 | 10.4 | 2.74 | 194.5 | 3.20 | 18.3 | 26.2 | 29000 |
| 143 | | 20.0 | 2750 | 280 | 8.00 | 1007 | 311 | 55.5 | 23.72 | 85.4 | | 18.2 | 19.2 | 3570 |
| 130 | 4.65 | 22.0 | 2960 | 256 | 8.00 | 290 | 229 | 40.0 | 2.70 | 26.7 | 3.13 | 18.5 | 34.5 | 3079 |
| 1000 | | 24.5 | 2190 | 201 | 7.90 | 262 | 253 | 44.9 | 2,800 | 100.7 | 3.10 | 17.9 | 1004 | 2000 |
| 106 | | 27.2 | 1900 | 204 | 7.54 | 230 | 230 | 39.4 | 2.86 | 60.5 | | STA | 7.48 | 1740 |
| 100 | | 30.0 | 1750 | 188 | 7.80 | 201 | 201 | 38.1 | 2.66 | 98.3 | | ST.F. | 1.00 | 1580 |
| 86 | | 33.4 | 1530 | 166 | 7.77 | 100 | 125 | 20.6 | 2.63 | 46.4 | | PER. | 46.900 | 13000 |
| 76 | 8.73 | 33.8 | 1300 | 146 | 7.75 | 160 | 100 | 10.6 | 2.61 | 42.2 | 3.00 | 17.5 | 230 | 1170 |
| 25 | | 32.4 | 1170 | 107 | 7.30 | 146 | 80.3 | 15.8 | 1.70 | 267 | | 17.7 | 3.49 | 470 |
| -65 | | 36.7 | 1000 | 107 | 7.40 | 133 | 54.8 | 34.4 | 1,000 | 20.5 | | 17.7 | 3.73 | 424 |
| 60 | | 36.7 | 964 | 108 | 7.47 | 123 | 50.1 | 19.0 | 1.68 | 20.6 | | 17.5 | 2.67 | 300 |
| 55 | | 41.5 | 800 | 98.3 | 7.40 | 152 | 64.3 | 11.34 | 1,67 | 36.5 | | 17.5 | 1.86 | 3400 |
| 50 | 9.07 | 49.2 | 800 | 88.9 | 7.38 | 101 | 40.1 | 19.7 | 1.85 | 16.6 | 1.96 | STA | 1.24 | 304 |
| 46 | | 44.6 | 710 | 78.8 | 7.25 | 90.7 | 22.5 | | 1.29 | 11.7 | | 17.5 | 1.22 | 170 |
| 1400 | 100 7000 | - BOOK - DO | 48.00 | The second second | 10.764 | 100 mg - 100 | 100000000000000000000000000000000000000 | The same of the same of | 44 (1988) | Technolic III | 100 (100) | 100 May 18 | A STATE OF THE PARTY OF THE PAR | 40.00 |

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Table 1-1 (continued)

W-Shapes

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^{*} The actual scin, combination and orientation of fasterier components should be composed with the groundty of the cross section

[&]quot; Farge Statema greater Sun 2 in Special requirements may apply per ASS Specification Switzer All No

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designing and detailing steel structures utilizing the latest design methods according to the AISC Code The goal is to prepare readers to work in design offices as designers and in the field as inspectors This new edition is compatible with the 2011 AISC code as well as marginal references to the AISC manual for design examples and illustrations which was seen as a real advantage by the survey respondents Furthermore new sections have been added on Direct Analysis Torsional and flexural torsional buckling of columns Filled HSS columns and Composite column interaction More real world examples are included in addition to new use of three dimensional illustrations in the book and in the image gallery an increased number of homework problems and media approach Solutions Manual Image Gallery The Wiley Engineer's Desk Reference Sanford I. Heisler, 1998-04-24 The Reference of Choice for Today's Engineer Revised expanded updated and ready to use Every engineer should have a copy of the bestselling Wiley Engineer's Desk Reference the ideal all in one resource for practical engineering applications and daily problem solving Now fully updated to address the latest developments in theory and practice this brand new Second Edition balances authoritative coverage of classical engineering topics with new material on state of the art subjects such as composites lasers automatic data collection and more No other book on the market covers the broad spectrum of engineering in as concise a fashion So whether you re looking for a specific piece of data or general background knowledge this conveniently sized ready reference puts the information you need right at your fingertips Contents include Mathematics Mechanics and materials Hydraulics Structures Thermodynamics Electricity and electronics Process control Statistics and economics Energy sources Engineering practice The design process Tables and reference data

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considered to validate REDSET Time domain representations and the uncertainty quantification procedures including the use of multiple time histories are proposed and demonstrated for all these dynamic loadings Both onshore and offshore structures are used for validation The potential of REDSET is demonstrated for implementing the Performance Based Seismic Design PBSD concept now under development in the United States For wider multidisciplinary applications structures are represented by finite elements to capture different types of nonlinearity more appropriately. Any computer program capable of conducting nonlinear time domain dynamic analysis can be used and the underlying risk can be estimated with the help of several dozens or hundreds of deterministic finite element analyses providing an alternative to the simulation approach To aid comprehension of REDSET numerous illustrative examples and solution strategies are presented in each chapter Written by award winning thought leaders from academia and professional practice the following sample topics are included Fundamentals of reliability assessment including set theory modeling of uncertainty the risk based engineering design concept and the evolution of reliability assessment methods Implicit performance or limit state functions are expressed explicitly by the extensively modified response surface method with several new experimental designs Uncertainty quantification procedures with multiple time histories for different dynamic loadings illustrated with examples The underlying risk can be estimated using any computer program representing structures by finite elements with only few deterministic analyses REDSET is demonstrated to be an alternative to the classical random vibration concept and the basic simulation procedure for risk estimation purposes REDSET changes the current engineering design paradigm Instead of conducting one deterministic analysis a design can be made more dynamic load tolerant resilient and sustainable with the help of a few additional deterministic analyses This book describing REDSET is expected to complement two other books published by Wiley and authored by Haldar and Mahadevan Probability Reliability and Statistical Methods in Engineering Design and Reliability Assessment Using Stochastic Finite Element Analysis The book is perfect to use as a supplementary resource for upper level undergraduate and graduate level courses on reliability and risk based design Aluminum Structures J. Randolph Kissell, Robert L. Ferry, 2002-10-02 On the First Edition The book is a success in providing a comprehensive introduction to the use of aluminum structures contains lots of useful information Materials examples of recently built aluminum structures from buildings to bridges and a comparison of aluminum to other structural materials particularly steel Topics covered include Structural properties of aluminum alloys Aluminum structural design for beams columns and tension members Extruding and other fabrication techniques Welding and mechanical connections Aluminum structural systems including space frames composite members and plate structures Inspection and testing Load and resistance factor design Recent developments in aluminum structures **Steel Design** Paul McMullin, Jonathan Price, Richard Seelos, 2017-12-06 Steel Design covers steel design fundamentals for architects and engineers such as tension elements flexural elements shear and torsion compression elements connections and lateral design As part of the Architect s

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