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the Steel Construction Manual An introduction to designing steel structures using the AISC Steel Construction Manual, 13th edition. By T. Bart Quimby, P.E., Ph.D. Owner & Principal Engineer Quimby & Associates Eagle River, Alaska Professor of Civil Engineering University of Alaska Anchorage August 2008

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The first step is to calculate the factored tension load,  $P_u$ , per ASCE 7 load combinations. It is equal to 1.2 times the dead load plus 1.6 times the live load. The second step is to compute the required nominal unthreaded body area of the rod,  $A_b$ , using Equation J3-1 in Chapter J of the AISC Specification. This equation is used to find the tensile and shear strength of bolts and threaded parts.

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16: ANSI/AISC 360-16 Louis F. Geschwindner, Ph.D., P.E, Professor Emeritus, Architectural  
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new york state steel construction manual 3rd edition new york state department of transportation  
engineering division office of structures richard marchione deputy chief engineer structures  
prepared by the metals engineering unit march 2008 key for revisions: september 2010 -  
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any "old" AISC steel manual, including the 9th edition (green) manual. You will, however, not find  
the information in the 3rd edition LRFD steel manual. For that manual, the smallest W-shape  
included in the column tables is a W10.

### **14th edition AISC Manual - Structural engineering general ...**

viii A Beginner's Guide to the Steel Construction Manual [www.bgstructuralengineering.com](http://www.bgstructuralengineering.com) Preface  
The creation of the Beginner's Guide to the Steel Construction Manual (BGSCM) was prompted by  
the major rewrite of the AISC specification that appeared in the 13th edition of the Steel  
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53:134 Structural Design II Load and Resistance Factor Design (LRFD) Specifications and Building  
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