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Single-Plate Shear Connection Design to Meet Structural

are defined in Part 10, page 10-101 of the 13th Edition Steel Construction Manual (AISC, 2005b). Design strength values are provided in Tables 10-9a and 10-9b. The following eight limit states must be checked for a tension force applied to the single-plate shear connection shown in Figure 1: • Bolt shear • Weld • Plate yield

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steel must account for three types of tolerance in their design: Mill Tolerance, Fabrication Tolerance, and Erection Tolerance. Mills producing hot-rolled structural steel must conform to the ASTM A6 specification as stated in AISC's Manual of Steel Construction, 13th Edition. ASTM A6 sets the acceptable variance for member length,

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MODERN STEEL CONSTRUCTION June 2009 moment connections M In the Moment ... the AISC Seismic Provisions must be applied, which has a significant associated cost implication. 3. When heavy rolled W-shapes are required at moment connections ... As explained on page 12-3 in the 13th edition AISC Manual, it is permissible "since, ...