

AISC's Steel Solutions Center recently received several questions related to calibrated wrench pretensioning:

**Define the term calibrated wrench pretensioning method. What constitutes such a method?**

Section 7.1.2.2 of the Specification for Structural Steel Buildings (2010) (www.boltcouncil.org).

**Is it a torque-controlled method of installation?**

Section 7.1.2.2 of the Specification for Structural Steel Buildings (2010) (www.boltcouncil.org) defines a calibrated wrench pretensioning method as a method of installation that uses a calibrated wrench to apply a torque to a bolt, nut, or washer head that is 40% of the minimum required torque for the bolt, nut, or washer head.

**If an installation torque is not determined as defined in (3) of the commentary to Section 7.1, does the pretensioning method qualify as a calibrated wrench?**

**Why does Appendix 6.3.1 of the 2005 AISC specification mandate that bracing be attached near the top (tension) flange of cantilevered members?**

*Question sent to AISC's Steel Solutions Center*