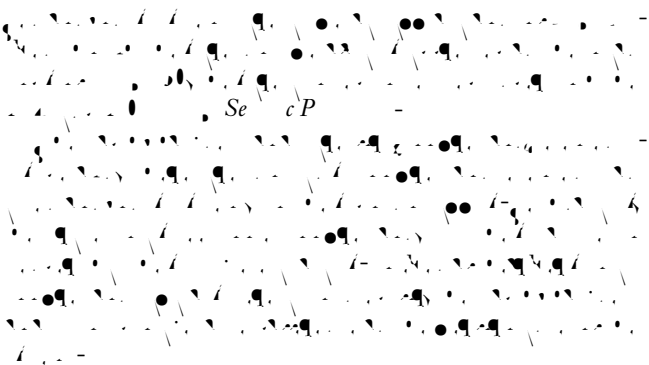


Tension-Only OCBF

I am designing a tension-only OCBF using cables for braces. The 2005 and 2010 AISC require braces to comply with specific width-to-thickness limits in Sections 14.2 and Section F1.5a, respectively. How is b/t for a cable calculated? I also noticed that the user note discussing tension-only OCBFs in 2005 AISC is absent from the 2010 version of this document. Does this mean that tension-only OCBFs are no longer allowed?

Section F1.5a www.aisc.org/2010spec



Head Mace, S.E., P.E.

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La S.M., P.E.

A325 Bolt Strength

I noticed a conflict between AISC Table J3.2 and AISC Table 2-6. Table J3.2 gives the nominal tensile strength of ASTM A325 bolts as a constant value for all bolt diameters. However, Table 2-6 shows that there is a reduction in the tensile strength of A325 bolts over 1 in. in diameter. Why does the AISC not reflect this strength reduction?

Shear Stud Strength

In AISC Table 3-21, for the case of no-deck, normal-weight concrete and $f'_c=4$ ksi, the values in the 14th Edition have changed in comparison to the 13th Edition. Why have these values changed?

