

Single-Angle Connection Tables

I do not understand the reason behind one of the notes for Table 10-11 in the 13th edition *Manual*. I'm unclear why a "smaller half web will result in these values being conservative."

As shown on page 10-123 for this case, the eccentricity is considered on the leg attached to the supporting member. The eccentricity is measured from the center of the web of the supported member to the center of the bolt or weld group. The values in the tables assume a 1/2-in. web (or 1/4-in. half web) thickness dimension. The strength of the bolts (or weld for that matter) is calculated using the instantaneous center of rotation method discussed in Parts 7 and 8 of the *Ma, a*. If the web thickness is less than 1/2 in., then the assumed eccentricity will be larger than the actual eccentricity, and the strength given in the table will be conservative. If the web thickness is greater than 1/2 in., then the assumed eccentricity will be less than the actual eccentricity, and the strength given in the table will be unconservative and must be either reduced by the rule of thumb given in the footnote or recalculated.

