

IF YOU'VE EVER ASKED YOURSELF "WHY?" about something related to structural steel design or construction, *Modern Steel Construction's* monthly Steel Interchange column is for you! Send your questions or comments to solutions@aisc.org.

Direction of Bend

Where can I find information on bending of plates with respect to the direction of the rolling?

Table 10-12 in the 13th Edition AISC *Steel Construction Manual* and Appendix X4 of ASTM A6, which is similar, provide information on cold bending of plates, including suggested inside radii for cold bending. The suggested radii differ depending on the orientation of the bend with respect to the direction of the rolling. As stated therein, it is preferable that the bend line is perpendicular to the direction of final rolling. Otherwise, a more generous radius is suggested.

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Moment Connections

In AISC Design Guide No. 13, the author chose to neglect story shear in all 13 design examples. Is it *always* conservative to neglect story shear? The author does not address this in the Guide, yet the effects are not included in the examples.

It is always conservative to neglect the effects of story shear. Considering story shear will always reduce the shear on the column panel zone, since the reactions tr2

