ERRATA

Torsion of Rectangular Connection Elements

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In Example 1 on page 79, the nominal torsional strength is corrected to:

$$T_p = \frac{(0.6)(50\text{ ksi})(0.750\text{ in.})^2(15\text{ in.})}{2}\left[1+\frac{15\text{ in.}}{(2.4)(10\text{ in.})}\right]$$
$$= 206\text{ kip-in.}$$

And the available torsional strengths are updated to:

LRFD	ASD
$\phi T_p = (0.90)(206\text{ kip-in.})$ $= 185\text{ kip-in.}$	$T_p/\Omega = 206\text{ kip-in.}/1.67$ $= 123\text{ kips}$

On page 80, the interaction calculations are revised to:

For LRFD, interaction according to Equation 61 is:

$$\left(\frac{30\text{ kips}}{507\text{ kips}}\right)^2+\left(\frac{42.9\text{ kip-in.}}{185\text{ kip-in.}}\right)^2+\left(\frac{60.3\text{ kips}}{338\text{ kips}}\right)^4+\left[\left(\frac{600\text{ kip-in.}}{1{,}900\text{ kip-in.}}\right)^{1.7}+\left(\frac{60.0\text{ kip-in.}}{94.5\text{ kip-in.}}\right)^{1.7}\right]^{0.59} \quad (61)$$
$$= 0.800 < 1.0 \quad \textbf{o.k.}$$

For ASD, interaction according to Equation 61 is:

$$\left(\frac{20\text{ kips}}{337\text{ kips}}\right)^2+\left(\frac{28.6\text{ kip-in.}}{123\text{ kip-in.}}\right)^2+\left(\frac{40.2\text{ kips}}{225\text{ kips}}\right)^4+\left[\left(\frac{400\text{ kip-in.}}{1.260\text{ kip-in.}}\right)^{1.7}+\left(\frac{40.0\text{ kip-in.}}{62.9\text{ kip-in.}}\right)^{1.7}\right]^{0.59} \quad (61)$$
$$= 0.802 < 1.0 \quad \textbf{o.k.}$$