



AISI STANDARD

**Errata to North American Specification
for the Design of Cold-Formed
Steel Structural Members
2016 Edition (Reaffirmed 2020) With
Supplement 3, 2022 Edition**

November 14, 2023

Errata to North American Specification for the Design of Cold-Formed Steel Structural Members, 2016 Edition (Reaffirmed 2020) With Supplement 3, 2022 Edition

Specification: On page 50, revise Eq. F3.2-1, as follows:

F3.2 Direct Strength Method

For the *Direct Strength Method*, the *nominal flexural strength [resistance]*, $M_{n\ell}$, for *local buckling* shall be determined as follows:

For $\lambda_\ell \leq 0.776$

$$M_{n\ell} = \overline{M}_{ne} M_{ne} \quad (\text{Eq. F3.2-1})$$

For $\lambda_\ell > 0.776$

$$M_{n\ell} = \left[1 - 0.15 \left(\frac{M_{cr\ell}}{\overline{M}_{ne}} \right)^{0.4} \right] \left(\frac{M_{cr\ell}}{\overline{M}_{ne}} \right)^{0.4} \overline{M}_{ne} \quad (\text{Eq. F3.2-2})$$

where

$$\lambda_\ell = \sqrt{\overline{M}_{ne}/M_{cr\ell}} \quad (\text{Eq. F3.2-3})$$

\overline{M}_{ne} = Lesser of M_{ne} and M_y

M_{ne} = Nominal flexural strength [resistance] for *lateral-torsional buckling* as defined in Section F2

M_y = Member *yield moment* in accordance with Section F2.1

$M_{cr\ell}$ = Critical elastic *local buckling moment*, determined in accordance with Appendix 2, including the influence of holes if applicable

For members with holes, $M_{cr\ell}$ shall be determined including the influence of holes and:

$$M_{n\ell} \leq M_{ynet} \quad (\text{Eq. F3.2-4})$$

where

M_{ynet} = Member *yield moment* of net cross-section

$$= S_{fnet} F_y \quad (\text{Eq. F3.2-5})$$

where

S_{fnet} = Net section modulus referenced to the extreme fiber at first yield

F_y = *Yield stress*