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Note: Except where specifically noted, any mention of AISC documents applies to both the 2010 and 2016 editions. All AISC documents referenced can be found at www.aisc.org/publications.

Local Buckling of Round HSS

Section F8 of the AISC *Specification for Structural Steel Buildings* (ANSI/AISC 360) addresses the flexural strength of round hollow structural sections (HSS). In Equations F8-2 and F8-4, the ratio, D/t , is not squared. Should it be?

Also, these equations can result in nominal flexural strengths higher than formula F8-1. How can the nominal strength be greater than the plastic flexural strength of the section?

Equation F8-2: $M_n = A_g F_y$
 Equation F8-4: $M_n = A_g F_y$
 Equation F8-1: $M_n = A_g F_y$

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 SFRS, EOR.
 Carlo Lini, PE

Which Edition of the Manual?

How long can engineers continue to use the 14th Edition of the *Manual* now that the 15th Edition is available?

Manual
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 Manual
 Specification
 2016
 Specification
 14, E Manual
 2010 Specification 15, E
 Manual
 2016 Specification.
 Keith Grubb, SE, PE

I am an engineer performing connection design for a fabricator. We are having an argument in our office about whether the bolted connections at drag struts must be designed as slip-critical. Can you provide clarification?

C.
 B. AISC *Seismic Provisions for Structural Steel Buildings* (ANSI/AISC 341)
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 D2.2(). Seismic Provisions
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Bonus: Back in April 2012, Keith wrote a *SteelWise* article describing the AISC Manual Resource Page. This page can now be accessed at www.aisc.org/publications/steel-construction-manual-resources. The Manual Resources for the 15th Edition Manual are expected to be updated and accessible by the end of 2017.

Keith's original article, which is still relevant half a decade later, can be found in the Archives section at www.modernsteel.com.

PJP Groove Weld Symbols

I have several questions about partial joint penetration (PJP) groove welds:

1. What is the proper callout for a PJP groove on the contract drawings?
2. Must the effective throat be shown in parentheses?
3. As the engineer, would I ever specify a value for S , the groove depth?
4. Should the weld symbols for PJP groove welds look different on engineering drawings and shop drawings?

I have several questions about partial joint penetration (PJP) groove welds:

1. Callout: $2.3.5.3 \text{ A } S D 1.1$
2. Effective throat: $(0.7S)$
3. Groove depth: G

Reference: AWS A2.4: *Standard Symbols for Welding, Brazing, and Nondestructive Examination*, PJP

Reference: AWS A5.1: *Structural Steel Welding*, S

Reference: AISC Specification, O