

Beveled Transitions

A. $\frac{10}{18}$ ($\frac{6}{1.5}$) . I . . . ?

The requirements for transitions depend on the application. Is the piece subject to static load with $\lambda = 3$ used in the design, or is it a high-seismic or cyclic loading case? Also, are the plates welded or cut?

If it is statically loaded with $\lambda = 3$ used in the design: the requirements recently changed and no transition is now necessary for welded plates. The change was made in the 2008 version of

Proprietary Connection?

I have seen a connection detail labeled WUF-W. Is this a proprietary connection?

No, the WUF-W connection is and always has been in the public domain. This abbreviation covers a detail with a welded unreinforced flange (the WUF part) with a welded web (the W part) as illustrated below with the special seismic weld access hole also illustrated below. Like its close cousin with a bolted web (the WUF-B), it was developed by the FEMA-funded SAC Joint Venture and published in FEMA 350 and related documents. Both of these details have been incorporated into AISC documents, including the AISC Specification for Structural Steel Buildings (AISC 341) and the AISC Design Guide for Moment Resisting Frames (AISC 341 D).

Additionally, the WUF-W detail recently was added to the list of details that are prequalified for use in Special Moment Frames (SMF) and Intermediate Moment Frames (IMF) in AISC 358 Specification for Structural Steel Buildings (AISC 358 C). According to AISC 341 Appendix P, the WUF-W connection is not a proprietary connection.

Figure C-I-11.1 Schematic illustration of strong-

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If you have a question or problem that your fellow readers might help you solve, please forward it to us. At the same time, feel free to respond to any of the questions that you have read here. Contact Steel Interchange via AISC's Steel Solutions Center:



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