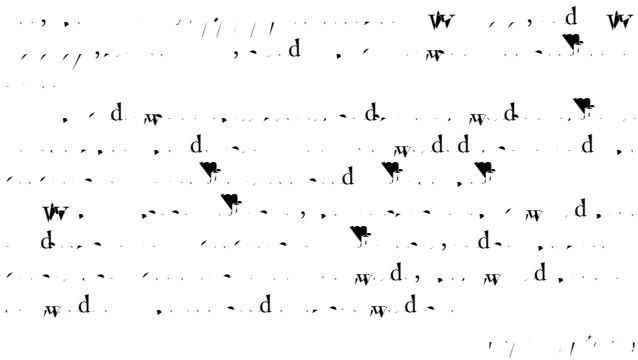


Shop Drawing Requirements for Welds

I have received approved shop drawings where groove welds are specified, but the edge preparation is not shown. Does AISC require that weld preparations be shown on a shop drawing?

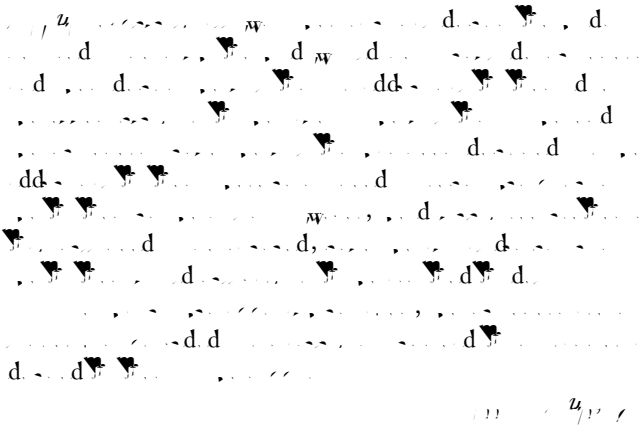


Moment Connection with Extended Single Plate

I am designing a direct welded flange moment connection between a beam and column. The shear connection is an extended single plate with two columns of bolts. Since this is part of a moment connection that restricts rotation, is it appropriate to use a ϕ equal to 1.0 when checking block shear on the extended single plate, rather than 0.5 as recommended by the Commentary AISC 360 Section J4.3 for multiple columns of bolts? In addition, does the minimum weld equal to ϕ still apply or can I size the weld based on the required shear strength only?

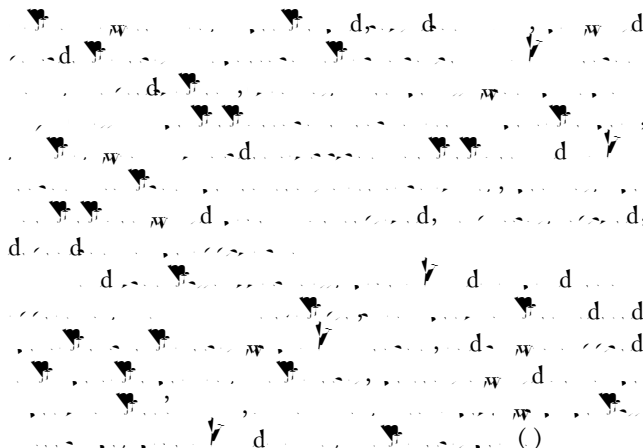


Extended Single Plate Connection



CVN Testing

Section 6.3 of AISC 341-05 requires CVN testing for certain components of the SLRS. Some heavy material has been purchased and delivered to the fab shop without the required CVN testing. The material was purchased to length so there is no surplus material from which test coupons can be cut. Is there an acceptable form of NDE or other analytical technique that can be used to measure toughness in lieu of CVN testing?



steel interchange

Steel Interchange is a forum to exchange useful and practical professional ideas and information on all phases of steel building and bridge construction. Opinions and suggestions are welcome on any subject covered in this magazine.

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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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