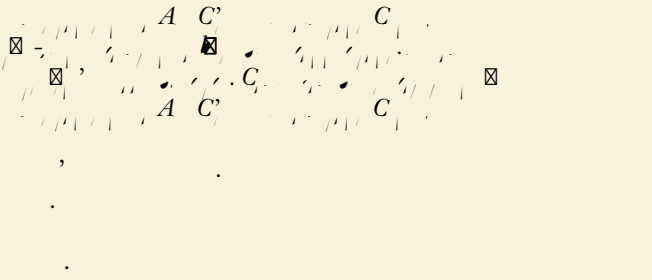


IF YOU'VE EVER ASKED YOURSELF "WHY?"  
*Steel Construction'*

Modern

## Thermal Cutting

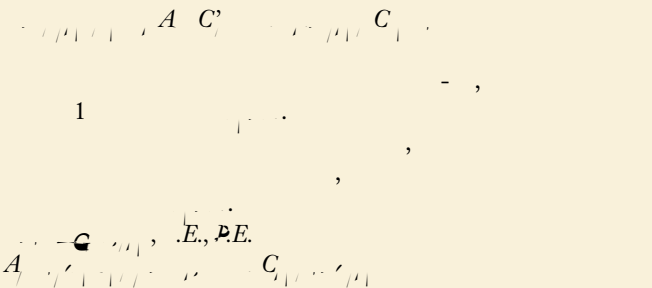
I received an RFI requesting a modification that includes thermal cutting (torching) of the deck closure angles (diaphragm chords). The special inspections agency is requesting that we verify this modification. I am trying to research the effects of thermal cutting. Do you have any recommendations on where to look for information as far as codes or technical references?



[www.aisc.org/epubs](http://www.aisc.org/epubs)

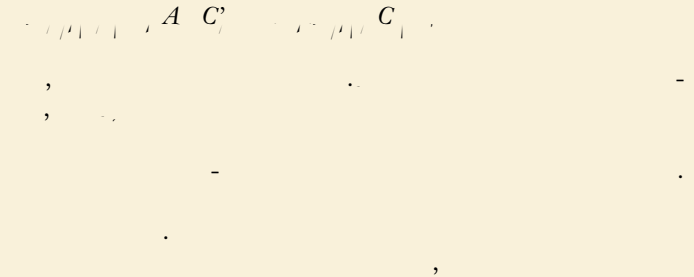
## Design Stress for Compression Members

In the third edition of the LRFD *Manual of Steel Construction*, on page 16.1-143, there is a table for design stress for compression members in relation to  $Kl/r$ . Where is this table in the *Steel Construction Manual*, 13th edition?



## Section Properties of Back-to-Back Channels

Does AISC provide a spreadsheet that calculates the section modulus of two channels welded back to back?

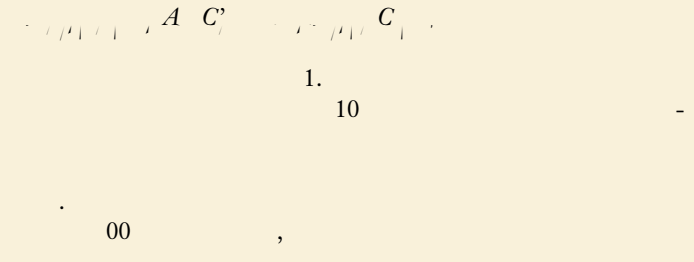


[www.steelutilitiesonline.org](http://www.steelutilitiesonline.org)

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## Minimum Connections

Section J1.7 in the AISC specification covers "minimum strength of connections" and requires a factored load not less than 10 kips for connection design. Where does the "10 kips" come from? Is that empirical? Can I use this load for the connections of precast concrete structures?



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## Workable Gage

I noticed that the workable gage for W8x24 and W8x28 in the 13th edition *Manual* changed from previous editions of the steel manual. The 13th edition shows the workable gage as 4 in. for those members; previous editions list them as 3½".

