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IF YOU'VE EVER ASKED YOURSELF "WHY?" about something related to structural steel design or construction, *M S C c* 's monthly Steel Interchange column is for you! Send your questions or comments to solutions@aisc.org.

Weak Axis Bending

I have an H-shape in bending about the weak axis. Chapter F, Section F2 of the AISC manual notes, "Lateral bracing is not required for members loaded through the shear center about their weak axis, or for members of equal strength about both axes." Do we still need to consider the lateral torsional buckling effect if the beam is bent about the weaker axis? Based on my understanding, lateral bracing prevents torsion and lateral deflection only. What is the exact relation between "lateral bracing to prevent torsion" and "lateral bracing to prevent lateral torsional buckling"?

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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:

> One East Wacker Dr., Suite 700 Chicago, IL 60601 tel: 866.ASK.AISC • fax: 312.803.4709

solutions@aisc.org