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Single-Plate Shear Connection Design to Meet Structural Integrity Requirements

LOUIS F. GESCHWINDNER and KURT D. OUSTADSON

INTERNATIONAL BUILDING CODE REQUIREMENTS

Section 1614 of IBC 2009 provides structural integrity requirements that apply to high-rise buildings in occupancy categories III and IV. Simply stated, this means buildings

Louis F. Geschwindner, P.E., Ph.D., Vice President, American Institute of Steel Construction, Chicago, IL (corresponding author), E-mail: geschwindner@aisc.org
Kurt D. Gustafson, S.E., P.E., Director of Technical Assistance, American Institute of Steel Construction, Chicago, IL, E-mail: solutions@aisc.org

![Diagram of single-plate shear connection](image)

\[ T_{w} \geq \frac{2}{3} V_{u} \]  
\[ T_{w} \geq 10 kips \]

Fig. 2. Conventional configuration single-plate shear connection.

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12.5 in. x 32 mm

The required shear strength at a beam end. The simplest way to satisfy this requirement, if the beam is not symmetrical, is to make the connections symmetrical. That way, the connection at each end will be guaranteed to meet the structural integrity requirements.

106 / ENGINEERING JOURNAL / THIRD QUARTER / 2010

Evolution of the shear connection.

Also discussed in:
An Experimental Study of Block Shear Failure of Angles in Tension

Paper by HOWARD I. EPSTEIN
(Second Quarter 1992)

Errata by HOWARD I. EPSTEIN

Figure 1 in this paper showed, in part:

This error was brought to light by the discussion of the paper “AISC Rules for Block Shear—A Review” by Geoffrey L. Kulak and Gilbert Y. Grodin. It should be noted that the numbers shown in the 1992 paper are correct and are based on the gages shown in the corrected figure and on the governing block shear equations at the time of publication. The LRFD block shear equations have gone through two revisions since that publication.

The paper states that standard gage lines were used for the angles and g1 and g2 are given in the paper for the 5-in. and 6-in. connected legs. This figure incorrectly showed the gages. The correct labeling should have been:

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