
DISCUSSION

The Effects of Over-Compressing ASTM F959 Direct Tension Indicators on A325 Bolts Used in Shear Connections

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Figure 1, Method #2, on page 40 is inaccurately drawn. The location of the Direct Tension Indicator (DTI) is incorrectly shown. As shown, the turned element (nut) would abrade the tops of the DTI protrusions. This should be avoided. The proper location for the DTI is between the steel material and the hardened washer with the protrusions facing the hardened washer.

Reference can be made to the *Load and Resistance Factor Design Specification for Structural Joints Using ASTM A325 or A490 Bolts* (RCSC, 1988) printed in the *LRFD Manual of Steel Construction* (AISC, 1994) on pages 6-386 and 6-421

and to DTI manufacturers installation instructions for verification.

REFERENCES

- American Institute of Steel Construction (1994), *Load and Resistance Factor Design Manual of Steel Construction*, Chicago, IL.
- Research Council on Structural Connections (1988), *Load and Resistance Factor Design Specification for Structural Joints Using ASTM A325 or A490 Bolts*, AISC, Chicago, IL.

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