



FTL FLOOD
Testing Laboratories, Inc.

1945 EAST 87TH STREET
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PHONE (773) 721-2200
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January 23, 2006

Mr. Christofer Curven
Applied Bolting Technologies
1413 Rockingham Rd.
Bellows Falls, VT 05101

Re: Use of DTI Washer in Accordance with ICC Specifications

Dear Mr. Curven:

Per your request we have supplied documentation regarding the use of DTI washer in projects designed and inspected under ICC specifications. Please note that ICBO, SBCCI and BOCA have consolidated into one organization, the International Code Council (ICC). Although the ICC was established in 1994, the organizations completely consolidated as one a few years ago. This consolidation resulted in the first published ICC building code the "International Building Code 2000". Evidence of this can be documented by going to ICC website at ICCSafe.org.

The International Building Code 2003 (IBC) is the building code that governs the inspection of structural steel in ICC jurisdictions. Section 1704 of the IBC 2003, *Structural Tests and Inspections*, describes the requirements for these inspections as well as the materials to be utilized in steel construction. IBC Paragraph 1704.3.3 states that all bolts shall be inspected in accordance with AISC Specifications. The *RCSC Specification for Structural Joints Using A325 or A490 Bolts paragraph 8.2.4*, an AISC specification contained in the LRFD, indicates that DTI washer shall conform to ASTM F959. In addition, Table 1704.3 - 1(a) of the IBC requires that all bolted parts conform to the applicable ASTM material specifications. Again, this would refer to ASTM F959.

The RCSC Specification, para 9.2.4, states that, "... after pretensioning, it shall be observed by routine observation that the appropriate feeler gage is refused entry into at least half the spaces between the protrusions ..."

Squirter DTI's are manufactured and certified to meet ASTM F959, but have the added feature of bright orange silicone which squirts out as the DTI protrusions compress. After suitable calibration of the squirted silicone feature in a Skidmore-Wilhelm calibrator and/or by tests with a feeler gage, it is our opinion that routine observation of the Squirter DTI along with occasional feeler gage inspection, fulfills the inspection criteria of paragraph 9.2.4 of the RCSC Specification."

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I hope the above satisfies any questions you may have regarding the use of DTI in ICC jurisdiction. If you require any further information, please feel free to call me at (773)-721-2200.

Yours Very Truly,



Robert Alan Hay III
Senior Project Executive
ICC Special Inspector Structural Steel and Welding