

## Toole, Deborah

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**From:** Scheer, Daniel  
**Sent:** Wednesday, November 20, 2013 1:46 PM  
**To:** Toole, Deborah  
**Subject:** FW: 2014 Spec Book Typo (should say A325)

Debbie:  
Can we fix this typo?

Thanks,

*Dan*

Daniel L. Scheer, P.E.  
State Specifications Engineer  
(850) 414-4130

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**From:** Brautigam, Duane  
**Sent:** Wednesday, November 20, 2013 11:32 AM  
**To:** Scheer, Daniel  
**Subject:** FW: 2014 Spec Book Typo (should say A325)

Duane F. Brautigam, P.E.  
Director, Office of Design  
Florida Department of Transportation  
605 Suwannee Street, MS 38  
Tallahassee, FL 32399-0450  
(850) 414-4175  
[duane.brautigam@dot.state.fl.us](mailto:duane.brautigam@dot.state.fl.us)

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**From:** Zilberman, Lev [<mailto:lzilberman@BERGMANNPC.com>]  
**Sent:** Wednesday, November 20, 2013 9:27 AM  
**To:** Brautigam, Duane  
**Subject:** 2014 Spec Book Typo (should say A325)

## **460-5 Bolted Connections.**

**460-5.1 General:** Use bolts as follows:

1. Use galvanized ASTM A325 Type 1 bolts in all field in steel connections for painted steel.
2. Use either black or galvanized ASTM **A 25** Type 1 bolted structural steel connections that will be shop painted.
3. Use black ASTM A325 Type 3 bolts in all bolted structural for weathering steel that is to remain unpainted.

**Lev Zilberman, P.E.**

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## *Florida Department of Transportation*

RICK SCOTT  
GOVERNOR

605 Suwannee Street  
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ANANTH PRASAD, P.E.  
SECRETARY

### MEMORANDUM

**DATE:** November 22, 2013

**TO:** Specification Review Distribution List

**FROM:** Daniel Scheer, P.E., State Specifications Engineer

**SUBJECT:** Proposed Specification: **4600501 Structural Steel and Miscellaneous Metals.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change is proposed to correct a typographical error.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965DS, or [daniel.scheer@dot.state.fl.us](mailto:daniel.scheer@dot.state.fl.us). Comments received after **December 20, 2013**, may not be considered. Your input is encouraged.

DS/dt  
Attachment

**STRUCTURAL STEEL AND MISCELLANEOUS METALS.**  
**(REV 11-22-13)**

SUBARTICLE 461-5.1 is deleted and the following substituted:

**460-5.1 General:** Use bolts as follows:

1. Use galvanized ASTM A325 Type 1 bolts in all field installed bolted structural steel connections for painted steel.
2. Use either black or galvanized ASTM A 325 Type 1 bolts in all shop installed bolted structural steel connections that will be shop painted.
3. Use black ASTM A325 Type 3 bolts in all bolted structural steel connections for weathering steel that is to remain unpainted.
4. Use the bolts as specified for connected assemblies or parts that are designated as miscellaneous components where the fastener type is specified elsewhere in the Contract Documents.

Tighten ASTM A325 bolts in accordance with the procedures specified below for turn-of-nut or direct-tension-indicator (DTI) tightening.

Lubricate and maintain consistency in lubrication of fastener assembly during Rotational Capacity (RC) testing and installation. Assemblies that exhibit a loss of lubrication, as determined by the Engineer, may be re-lubricated and retested prior to installation.

Use ASTM A490 bolts only with the approval of the Engineer. Provide procedures in accordance with for the handling, lubrication, installation, tightening and testing of ASTM A490 bolts. Do not install ASTM A490 bolts without prior approval of the procedures by the Engineer.

When the Engineer approves ASTM A307 bolts for use in miscellaneous components, tighten them such that the plies of the joint are in firm contact. Use three to five impacts of an impact wrench or the full effort of a person using an ordinary spud wrench to obtain a snug connection.

Fasten aluminum, other materials or assemblies of dissimilar materials in accordance with the Contract Documents.

Install ordinary rough or machine bolts and nuts in accordance with the Contract Documents.