

ORINATION FORM

Proposed Revisions to the Specifications

(Please provide all information - incomplete forms will be returned)

Date:

Office:

Originator:

Specification Section:

Telephone:

Article/Subarticle:

email:

Will the proposed revision require changes to:

Publication	Yes	No	Office Staff Contacted
Standard Plans Index			
Traffic Engineering Manual			
FDOT Design Manual			
Construction Project Administration Manual			
Basis of Estimate/Pay Items			
Structures Design Guidelines			
Approved Product List			
Materials Manual			

Will this revision necessitate any of the following:

Design Bulletin

Construction Bulletin

Estimates Bulletin

Materials Bulletin

Are all references to external publications current?

Yes

No

If not, what references need to be updated? (Please include changes in the redline document.)

Why does the existing language need to be changed?

Summary of the changes:

Are these changes applicable to all Department jobs?

Yes

No

If not, what are the restrictions?

Contact the State Specifications Office for assistance in completing this form.

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MIKE DEW
SECRETARY

MEMORANDUM

DATE: November 29, 2018

TO: Specification Review Distribution List

FROM: Dan Hurtado, P.E., State Specifications Engineer

SUBJECT: Proposed Specification: **4710501 Fiber Reinforced Polymer Fender Systems.**

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

This change was proposed by Felix Padilla to match the note with the Title in Section 973, Table 5-1.

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 online at <http://www2.dot.state.fl.us/ProgramManagement/Development/IndustryReview.aspx> . Comments received after **December 27, 2018**, may not be considered. Your input is encouraged.

DH/rf
Attachment

FIBER REINFORCED POLYMER FENDER SYSTEMS
(REV 11-1-18)

SUBARTICLE 471-5.1 is deleted and the following substituted:

471-5 Design Criteria.

471-5.1 Wales: Wales must meet the following minimum design criteria:

1. Be structurally continuous across a minimum of two spans.
2. Recess all attachment hardware.
3. Provide sufficient creep resistance to prevent loosening of attachments over time.
4. Provide adequate stiffness to distribute vessel impact loading so as to achieve the maximum efficiency of the system.
5. For hollow wale sections, provide a minimum bolt pull-through and crushing resistance greater than or equal to the maximum connection reaction force. Pull-through and crushing resistance is defined at the point of first yield and/or the load at which an audible crack occurs.
6. Hollow wale sections must be capable of resisting crushing loads perpendicular to the axis of the member as required for the impact force applied to fender in the analysis used to determine the associated energy absorption capacity of the system. This impact force may be equally distributed between two lines of wales and over a longitudinal distance of five feet.
7. Provide black wales unless otherwise shown in the Plans.
8. Wales must meet the RTSS minimum requirements in Section 973, Table 5-1.