

4710000 POLYMERIC FENDER SYSTEMS  
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Comment: (11-16-12)

Recommend adding wales and boardwalk to the basis of payment for 471-3.

Response: Wales and dimensional lumber have been added to Section 471-7.2. In addition, the pay item units in the BOE Manual will be changed from LS/LS to LS/LF to allow for improved cost estimating.

Change Made.

*471-7.2 Custom Fender System Designs: Price and payment for polymeric fender system will be full compensation for the work specified in the Section including all labor, equipment and materials required to furnish and install the piles to the pile cut-off elevations shown in the Plans; wales, dimensional lumber, material, storage costs, disposal of unused material and waste, transportation costs, fasteners and other necessary items required for completing the work.*

*Payment will be made under:*

*Item No. 471-3-A Fender System, Polymeric – LS.*

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Powell, Jr., Rudy

Comment: (11-16-12) Why have QPL at all?

Response: The QPL is being phased out and the only reason for keeping it at this point is for the fabricators to have some means for showing FDOT acknowledgement of their products. They will eventually shift to an approved fabricator list similar to incidental precast concrete.

No change made.

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Juan F. Castellanos, P.E

Comment: (11-16-12)

**1. 471-3.3, b:** This is vague. What would be this quantified and verified by the CEI personnel? Are there any ASTM tests that can be used?

Response: There is no ASTM or other standard testing procedure to evaluate these performance criteria. No change made.

**2. 471-3.3, c:** How are these properties evaluated (ASTM or other Standard test)?

Response: Details of connections will be evaluated during the review by the SDO to ensure these criteria have been met. No change made.

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Comment: (11-19-12)

**1. 471-2:** To be consistent with 975, add the highlighted text for Fiberglass fiber reinforced composite lumber (Dimensional Lumber).

**471-2 Materials.**

Meet the following requirements:

- Fiberglass fiber reinforced **composite** lumber (Dimensional Lumber) .....Section 973
- Fiberglass structurally reinforced composite lumber (Wales)\* .....Section 973
- Concrete used to fill hollow piles Section 347
- \*or alternate wales as described below

Response: 1. The word “composite” was added to be consistent with Section 973.  
Change made.

**2. 471-3.2 (f):** This impact force may be equally distributed between two lines of wales and over a longitudinal distance of 5 feet. What is the basis for 5 feet?

Response: The recommendation based on our information was that five feet was a reasonable distribution length. No change made.

**3. 471-3.2 (h):** Add Table 4 for structural requirements. Also minimum core requirements in Table 1 may be inserted here as well

h) Wales must meet the minimum requirements in Section 973, **Table- 1** for Water Absorption, Brittleness, Impact Resistance, Ultraviolet, Abrasion, Chemical Resistance, and Static Coefficient of Friction (wet).

Response: Some wales may not contain a core (hollow); therefore, there cannot be performance requirements for a core. No change made.

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Dan Hurtado  
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Comment: (11-28-12) The performance criteria to be confirmed by independant lab testing are extremely qualitative. How do they compare to what is in the QPL acceptance language? They should be comparable if not identical.

Response: Per our phone conversation, the language is to remain as is. No change made.