

ORIGINATION FORM

THE INFORMATION BELOW IS TO BE PROVIDED BY THE ORIGINATOR

Modify Specification _____ 942 _____
Section/File number

New Section _____
Section number

Subject: Pipe Gaskets

Origination date: October 29, 2007

Originator: Jerome D. Taylor

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Problem statement: Industry has pointed out that ASTM C631 is a pressure pipe Specification whereas C443 is a gravity pipe spec. The critical difference between the two is that C361 calls for a minimum gasket tensile strength of 1200 psi whereas C443 requires 1200 psi. The added tensile strength of 361 adds cost but is unnecessary in our gravity pipe applications. The ASTM C443 gasket has been used without problems and the spec better fits the intended application. We want to change the 942 spec to cite ASTM C443 only.

Information source: Rodney powers, Rick Renna, Industry.

Background data: Any factual information on the problem, or potential solutions that could assist those working on the issue.

Recommended Usage Note:

Estimated fiscal impact, if implemented: This change will effectuate a tremendous savings over time.

Implementation of these changes, if and when approved, will begin with the July 2008 letting.



Florida Department of Transportation

CHARLIE CRIST
GOVERNOR

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STEPHANIE KOPELOUSOS
SECRETARY

MEMORANDUM

DATE: November 8, 2007
TO: Specification Review Distribution List
FROM: Duane F. Brautigam, P.E., State Specifications Engineer
SUBJECT: Proposed Specifications Change: 9420100 – Pipe Gaskets

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

This change was proposed by Jerome Taylor of the State Drainage Office to correct references to ASTM.

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 SP965DB or duane.brautigam@dot.state.fl.us. Comments received after December 6, 2007 may not be considered. Your input is encouraged.

DFB/sh

Attachment

COMMENTS:

Submitted by:

Phone #:

PIPE GASKETS.

(REV ~~10-26-07~~11-7-07)

ARTICLE 942-1 (Page 836) is deleted and the following substituted:

942-1 Round Rubber Gaskets for Pipe Joints.

Except where O-ring type gaskets are specified for special cases and for special type pipe, round rubber gaskets for use in concrete pipe joints shall meet the requirements of ~~Article 6.9 of~~ ASTM C 361~~443~~, with the additional requirements that the gasket used shall be of such cross sectional area and perimeter as to properly fit the space provided in the pipe joint in which it is to be used.

Prior to use, the gasket shall be stored in as cool a place as practicable.

ARTICLE 942-4 (Page 837) is deleted and the following substituted:

942-4 Profile Rubber Gaskets for Concrete Pipe Joints.

(a) Round Pipe: The gaskets shall meet the requirements ~~specified in Article 6.9 of~~ ASTM C 361~~443~~.

(b) Elliptical Pipe: The gaskets shall meet the requirements ~~specified in Article 6.1.1 of~~ ASTM C 443.

Additionally, the gaskets used shall be of such cross sectional area and perimeter as to properly fit the space provided in the pipe joint in which it is to be used.

The gaskets shall be stored in as cool a place as practicable prior to use.