

4100200 Precast Concrete Box Culvert.
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

Karen Byram

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Comments: (8-30-11) The materials section should also include references to QPL products by use of an asterisk or double asterisk. See the materials section in S400 as an example.

Response:

Doug Holdener

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Comments: (9-26-11) Rinker concurs with the correction to the joint design/manufacturing criteria from ASTM C443 (current spec) to C1677 (proposed). We suggest that the term “watertight” in the Section 410 spec be clarified that it applies to an in-plant test rather than a field test. For example, “Provide water-tight joints, as determined through in-plant testing, when shown in the contract documents.”

Response:

Pat McCann

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Comments: (9-26-11) District 4 Construction offers the following comments: 410-6.4.5 Tongue and Groove Joints or Ends: Ensure the planes formed by the ends of box sections do not vary perpendicular from the joint axis by more than the following: 1. Profiled Rubber Gasket Joints (ASTM C-1677): 1/8 inch/ft internal span with a maximum 5/8 inch for internal spans or heights less than or equal to 7 feet, and a maximum of 3/4 inch for internal spans greater than 7 feet. I am having a hard time visualizing what tolerance we are trying to measure here. Can you consider re-wording? I would suggest some wording if I understood what we were trying to measure.

Response:

Barry Smith

850-414-4776

Comments: (9-29-11) Does the QPL need to be referenced in the material requirements?

Response:

Roman Selig

Hamilton Kent

Precast Concrete Structures Association, Precast Concrete Structures Association (PCSA)
Comment: (10-10-11) Roman’s concern is that the new joint specification ASTM C1677 does not directly list the rubber gasket material properties but only references them in another ASTM (C1619). He would like to see this ASTM added to the Materials Section under 410-2 and in

410-11.2 (see attached markups in green). Non-Shrink GroutSection
934
Joint Materials..... ASTM C-443~~1619~~, ASTM C-877
.....ASTM C-1677 or ASTM C-990
Geotextile FabricsSection 985

* The gradation requirements of aggregates are not applicable when using dry-cast concrete.
sections.

410-11.2 Profile Rubber Gaskets: Install field joints in accordance with the joint manufacturer's
instructions and meet the following:

1. Meet the requirements of ~~Article 6 of~~ ASTM C-1619~~443~~ and ASTM C-1677,
2. Store all gaskets in a cool place prior to use,
3. Furnish to the Engineer written details regarding configuration of the joint and

Response:
