

10/23/20

State of Louisiana  
Department of Transportation and Development (DOTD)  
Materials and Testing Section Approved Materials Procedure  
for

**PLASTIC CULVERT PIPE AND JOINT SYSTEMS**

**MATERIAL SPECIFICATION REFERENCE:**

DOTD Standard Specifications, Subsection 1006, 1018.03

This reference relates to the use of plastic culvert pipe as culverts or storm drains. This list includes the type of pipe qualified, the name of the pipe the pipe manufacturer, the diameters of the pipe approved, the joint system utilized and the approved joint types tested in accordance with Subsection 1018.03

**APPROVED MATERIAL EVALUATION SUBMITTAL:**

The manufacturer shall submit a completed Approved Materials Evaluation Submittal to the DOTD Materials and Testing Section Coordinator listed below.

**PRELIMINARY REQUIREMENTS:**

The complete submittal must include:

- Complete Approved Materials Evaluation Form
- Letter requesting evaluation of the material
- Product Data Sheets
- Safety Data Sheet (SDS)
- Manufacturer's specification
- Material Literature
- AASHTO National Transportation Products Evaluation Program (NTPEP) Results

The address of the contact affiliated with AASHTO NTPEP is:

NTPEP Coordinator  
AASHTO National Transportation Products Evaluation Program  
444 N. Capitol St. N.W.  
Suite 249  
Washington, D.C. 20001  
Phone: (202) 624-3695  
Fax: (202) 624-5806  
<http://data.ntpep.org>

For detailed information, refer to the Operational Procedures of the AASHTO NTPEP available from the NTPEP Coordinator.

NOTE: Evaluation will not begin until all required items listed above are received by the Materials Laboratory.

#### Material Literature

Include with the submittal material literature regarding specification conformance, manufacturing process, raw materials, available diameters, joint system and materials, installation instructions, etc. The manufacturer shall also submit a diagram of each diameter of pipe to be qualified which shows all dimensions of diameter, wall thickness, rib height and thickness (if applicable), rib or corrugation spacing, corrugation height and width (if applicable), outside diameter, etc. The manufacturer shall submit dimensional tolerances for all dimensions. The DOTD will determine if the pipe will meet AASHTO design requirements using the minimum material cell classification properties and all profile data provided by the manufacturer. The manufacturer shall also submit a detailed description of the manufacturing facility's quality control plan.

#### **TEST REQUIREMENTS:**

##### AASHTO NTPEP

The manufacturer shall be aware that physical qualification tests shall be performed on every diameter of pipe to be qualified. The manufacturer will be required to provide pipe and material for the hydrostatic joint testing and conduct the hydrostatic test in the presence of DOTD personnel or AASHTO NTPEP representative or any other qualified personnel that is approved by DOTD. Laboratory and field results obtained by the AASHTO NTPEP will be used in the evaluation of this material. All qualification tests done by NTPEP or DOTD and all material used in testing shall be provided at no cost.

##### Evaluation Time (Varies)

NTPEP Laboratory testing - A final report will be received after the evaluation period. Exact deadline dates and dates for submittals should be obtained from the NTPEP Coordinator.

Evaluation of Results - 2 weeks

**GENERAL:**

Upon completion of the evaluation, the submitter will be notified in writing concerning the results of the evaluation and whether the system will or will not be added to the Approved Materials List (AML). The DOTD Materials and Testing Section Coordinator shall be notified in writing of any change from the original system submittal. The Department reserves the right to re-evaluate any system or individual material at any time. Certified hydrostatic testing results for all pipe sizes shall be submitted every five years and a Certificate of Compliance of the system shall be submitted annually to the DOTD Materials and Testing Section Coordinator to remain on the AML.

**PROJECT ACCEPTANCE REQUIREMENTS:**

The inclusion of any system on the AML is not blanket approval for its use. All systems, regardless of prior approval, shall be sampled in accordance with the Materials Sampling manual.

**DISQUALIFICATION AND REMOVAL:**

Any system may be removed from the AML for non-conformance with specifications, performance requirements, failure to supply annual Certificate of Compliance to the DOTD Materials and Testing Section Coordinator or failure to notify the Department of any change in system formulation.

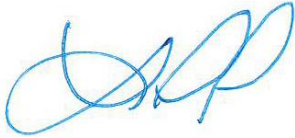
**REQUALIFICATION:**

Any system which has been disqualified and/or removed from the AML will be considered for re-evaluation only after submission of a formal request along with acceptable evidence that the problems causing the disqualification and/or removal have been resolved.

**DOTD MATERIALS AND TESTING SECTION COORDINATOR**

Daniel Huggins, E.I.  
Special Testing Engineer Intern  
DOTD Materials and Testing Section  
5080 Florida Blvd.  
Baton Rouge, LA 70806-4132  
(225) 248-4102  
Daniel.Huggins@la.gov

Approved



10-23-2020

LUANNA CAMBAS, P.E.  
DOTD MATERIALS ENGINEER ADMINISTRATOR