

Illinois Department of Transportation
Bureau of Materials

Qualified Product List
ELASTOMERIC BEARINGS

August 14, 2020

This list supersedes the February 7, 2020 list.

Standard Specifications for Road and Bridge Construction (current year issued).

Section 1083: ELASTOMERIC BEARINGS

| 1400-03 | | |
|--|---|---|
| Tobi Engineering Inc., 27709 West Concrete Drive, Ingleside, IL 60041 https://tobiengineering.com/ | | |
| Contact: Kathy Korshak Phone: (847) 724-7880 Email: Kathy@tobiengineering.com | | |
| IDOT Material Code | Product Description | Specifications |
| 70303/M | Pads, Bearing, Elastomeric Composite Type I | As specified in the Standard Specifications |
| 70306/M | Pads, Bearing, Elastomeric PTFE Type II | As specified in the Standard Specifications |
| 70323 | Pads, Bearing, Elastomeric PTFE Type III | As specified in the Standard Specifications |

| 256-02 | | |
|---|---|---|
| D.S. Brown Company, 518 Progress Way, Athens, TX 75751 https://dsbrown.com/ | | |
| Contact: Adam Wellington Phone: (419) 257-5472 Email: awellington@dsbrown.com | | |
| IDOT Material Code | Product Description | Specifications |
| 70303/M | Pads, Bearing, Elastomeric Composite Type I | As specified in the Standard Specifications |
| 70306/M | Pads, Bearing, Elastomeric PTFE Type II | As specified in the Standard Specifications |
| 70323 | Pads, Bearing, Elastomeric PTFE Type III | As specified in the Standard Specifications |

Elastomeric Bearings

Elastomeric bearings shall consist of steel laminated elastomeric pads or assemblies of steel laminated elastomeric pads with externally bonded structural steel bearing plates, structural steel top bearing plate, and required stainless steel and PTFE sheets, as shown on the plans and as specified. The bearing manufacturer shall furnish to the Engineer of Tests at the Bureau of Materials (126 East Ash Street, Springfield, IL 62704) a purchase order for each contract. The purchase order shall contain, as a minimum, the quantity and size of each type of bearing to be furnished.

Elastomeric Bearing Type I

If a pad is to be sampled for testing, Bureau of Materials will notify the pad manufacturer and the involved district. One extra pad may then be sent to the job site or supplier. The inspector shall pick one pad at random for testing.

Elastomeric Bearing Type II and III

The sampling procedure is the same as for the Type I bearing; however, the manufacturer shall also supply samples of Polytetrafluoroethylene (PTFE), Polyether Urethane, stainless steel, and fasteners from the same lots as used in the bearing request by the Bureau of Materials. The top steel plate and the bottom steel plate on the Type II and Type III bearings shall be attached to the rubber during the vulcanizing process. A bonding epoxy is not permitted to attach the steel plates. The inspector shall visually check tests pads for evidence of extrusions of epoxy.

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Unacceptable Bearings

If the original test specimen tested is found to be unacceptable, two additional bearing assemblies will be tested. If both are acceptable, the lot will be accepted. If either of the two additional bearing assemblies is unacceptable, the lot will be rejected. The Contractor shall have a new lot produced, including one additional test bearing. No payment will be made for the original failed bearing assembly or any subsequent test assemblies.

Probationary Status

Once a manufacturer has produced a bearing that has been found unacceptable the manufacturer will be put on probationary status. The probationary status will be in effect for a 12-month time frame or have had 6 bearings tested and found acceptable from different contracts that have been produced for Illinois Department of Transportation (IDOT) usage. These will be considered additional test bearings required to satisfy IDOT that all applicable test specifications are being followed. These bearings will not be paid for by IDOT.

If during this probationary status any bearings are found to be unacceptable the producer will be removed from the Qualified Producer List. To be reinstated on the qualified list the manufacturer will be required to be re-inspected and will be sampled per contract for the first 6 contracts. If during this re-certification time period any bearings fail to meet specifications the producer will be deemed non-qualified to produce Elastomeric Bearings for IDOT usage.

Effective January 2019, the Producer must be National Transportation Product Evaluation Program (NTPEP) compliant or at a minimum be scheduled for a 2019 NTPEP Audit.

Testing frequency is approximately every 125 bearings produced and as requested by the Bureau of Materials.

Central Bureau of Materials Contact Person: Michael Brydl (217)782-4666.

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Submittal for Testing and Approval

A. Scope

Before elastomeric bearings may be used for a Department project, the manufacturer shall provide documentation that his/her product meets the requirements as specified in the Standard Specifications for Road and Bridge Construction Section 1083. The following guidelines are provided to clarify the submittal requirements and expedite the process.

B. Procedure

When requesting producer/supplier status with the Department, the following shall be included in the certification:

- Manufacturer name and internet address (if applicable),
- The specific product brand name, (if private label must provide original product name)
- Safety Data Sheet (if applicable),
- Technical Data Sheet,
- A signed letter stating the subject material will not be changed without written notification to the Department, and
- Contact person's name, title, address, email address, and phone number.

To be listed on the Illinois Qualified Producer List, the producers must be NTPEP compliant and at the Bureau's discretion may be inspected by IDOT. When possible IDOT will conduct their inspection during the NTPEP audit when the Bureau deems it necessary. Depending on the material, test samples shall be required to obtain a producer/supplier number. Please contact Michael Brydl (217) 782-4666 for sample size as sizes vary depending on the material type. The sample and certification shall be sent to:

Michael Brydl
Illinois Department of Transportation
Bureau of Materials
126 East Ash Street
Springfield, IL 62704-4766

For questions regarding the testing and approval process, contact Michael Brydl (217)782-4666.