

Illinois Department of Transportation  
Bureau of Bridges and Structures

**Prequalified Structural System List**  
**HIGH LOAD MULTI-ROTATIONAL BEARINGS**  
**November 9, 2023**

This list supersedes the April 1, 2022 list.

For High Load Multi-Rotational Bearings according to Guide Bridge Special Provision No. 13.  
Material Code: 70308 (Pot) – 70322 (Disc)

For information regarding new product submittal, see page 2 and 3

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|---|---|
| <p><a href="#">Con-Serv, Inc.</a><br/>685 Aviation Blvd.<br/>Georgetown, SC 29440<br/>Producer Number: 6221-01<br/>Date Expires: 07/17/2025 (Pot)<br/>Date Expires: 07/17/2025 (Disc)<br/>Contact Name: David Drummond<br/>Phone Number: (843) 546-1044<br/>Material Code: 70308 (Pot)<br/>Material Code: 70322 (Disc)</p>            | <p><a href="#">R. J. Watson</a><br/>11035 Walden Avenue<br/>Alden, NY 14004<br/>Producer Number: 5330-01<br/>Date Expires: 07/25/2025 (Disc)<br/>Contact Name: Marc D. Stafford<br/>Phone Number: (716) 901-7020 ext. 15<br/>Material Code: 70322 (Disc)</p>            |
| <p><a href="#">TOBI Engineering, Inc.</a><br/>27709 West Concrete Drive<br/>Ingleside, IL 60041<br/>Producer Number: 1400-01<br/>Date Expires: 09/07/2027 (Pot)<br/>Date Expires: 09/07/2027 (Disc)<br/>Contact Name: Tom Korshak<br/>Phone Number: (847) 724-7880<br/>Material Code: 70308 (Pot)<br/>Material Code: 70322 (Disc)</p> | <p><a href="#">Cosmec, Inc.</a><br/>1501 Rocky Ridge Road<br/>P.O. Box 2159<br/>Athens, TX 75751<br/>Producer Number: 5522-02<br/>Date Expires: 10/09/2024 (Disc)<br/>Contact Name: Kerry Marchand<br/>Phone Number: (508) 455-3290<br/>Material Code: 70322 (Disc)</p> |
| <p><a href="#">D.S. Brown Company</a><br/>300 East Cherry Street<br/>North Baltimore, OH 45872<br/>Producer Number: 256-01<br/>Date Expires: 1/28/2026 (Disc)<br/>Contact Name: Adam Wellington<br/>Phone Number: (419) 257-3561<br/>Material Code: 70322 (Disc)</p>  | <p><a href="#">Mageba USA, LLC</a><br/>191 South Kiem Street, 2C-1 &amp; 2C-2<br/>Pottstown, PA 19465<br/>Producer Number: 7230-01<br/>Date Expires: 01/10/2024<br/>Contact Name: Tiago Destefani<br/>Phone Number: (508) 250-2656<br/>Material Code: 70322 (Disc)</p>  |

Note: Expiration date is four years from when the long-term deterioration test was successfully performed.

Domestic Steel Act Applies:

All iron and steel products, which are to be incorporated into state projects shall be domestically manufactured or produced and fabricated. The Contractor shall obtain from the iron or steel producer and/or fabricator, in addition to the mill analysis, a certification that all iron or steel materials meet these domestic source requirements. The application of all coatings, epoxy, galvanizing, painting, etc., to metal products shall be domestically applied.

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**Submittal Requirements for Evaluation and Prequalification**

**A. Scope**

Before materials can be used for a Department project, the manufacturer/supplier must have a producer/supplier number assigned to their facility. The following guidelines are provided to clarify the submittal requirements and expedite the process.

**B. Procedure**

Companies interested in being considered for prequalification to fabricate HLMR bearings as specified in the [Guide Bridge Special Provision \(GBSP 13\) for HLMR Bearings](#) shall provide an electronic copy of a system approval package to the Department at [DOT.Bridge.ProductEvaluations](#) for review and evaluation. As a minimum, the system approval package should contain the following:

- Acknowledgement by Company (Form [BMPR 101](#)). If your company does not already have a product included on an IDOT QPL, please submit a signed copy of the company acknowledgement form with your product submittal.
- Bearing manufacturer's company name to be listed on the web site and other contact/address information.
- Contact Person's Name, title, address, email address and phone number.
- Any supporting research if available.
- A brief list of recent past projects where your company's bearings have been used including owner's name and phone number.
- Show typical shop drawings, notes, and plan details including installation instructions.
- All materials specifications.
- Any literature, case histories, and brochures providing insight into the bearing use and applications.
- A signed letter stating the subject material will not be changed without written notification to the Department.
- Prequalification Long-Term Deterioration Test package.
  - This test shall be performed on one expansion bearing with a rated capacity of 300 kips (1335 KN) or higher. The bearing shall be loaded to the rated capacity, and then subjected to the plus and minus .02 radians rotational displacement amplitude for 5000 cycles. The bearing shall also be displaced through at least 1000 cycles with a plus and minus amplitude equal to 1 inch (25 mm). The maximum sliding speed for this test shall be 10 inches (500 mm) per minute. Damage visible to the naked eye upon disassembly of the bearing such as, cracks, or splits in the material, or a coefficient of friction which exceeds the value allowed for the material used, shall be grounds for rejecting the test. A successful, accepted test will result in prequalification good for no more than four years.
  - Provide video of last 2 minutes of each of the two tests described above.
  - Photographs of the complete bearing assembly and of each of the primary components before and after testing.
  - Certified copies of any test reports on the physical properties of the applicable component materials (Elastomer, PTFE, Stainless steel sheet, and Polyether urethan disc) for the bearing tested. Submittals with insufficient test data and supporting certifications will not be accepted.
  - Submit a third-party witness verification statement to the testing.

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If you have any questions concerning the specification or the requested information, please contact [the Policies, Standards and Final Plan Control Unit at 217-782-9109 or 217-785-2914](#)

**C. Renewal of Prequalification**

The Prequalification Long-Term Deterioration Test Package shall require resubmittal on a four-year cycle in order to continue supplying HLMR bearings for State contracts. It is the responsibility of the bearing producer to monitor when their bearing system prequalification expires and to resubmit for approval 3 months prior to the expiration date.