

Illinois Department of Transportation  
Bureau of Bridges and Structures  
**QUALIFIED LIST OF HIGH LOAD MULTI-ROTATIONAL BEARING MANUFACTURERS**  
**January 20, 2017**

**This list supersedes the January 15, 2016 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, click the “New Submittal” bookmark to the left.**

<p>Con-Serv, Inc. 685 Aviation Blvd. Georgetown, SC 29440 Producer Number: 6221-01 Date Expires: 04/29/2018 (Pot) Date Expires: 01/30/2018 (Disc) Contact Name: Bryon Adkins Phone Number: (843) 546-1044 Material Code: 70308 (Pot) Material Code: 70322 (Disc) <a href="http://www.con-servinc.com/">http://www.con-servinc.com/</a></p>	<p>R. J. Watson 11035 Walden Avenue Alden, NY 14004 Producer Number: 5330-01 Date Expires: 02/07/2017 (Disc) Contact Name: Marc D. Stafford Phone Number: (716) 901-7020 ext. 15 Material Code: 70322 (Disc) <a href="http://www.rjwatson.com/">http://www.rjwatson.com/</a></p>
<p>TOBI Engineering, Inc. 3126 West Lake Avenue Glenview, Illinois 60026 Producer Number: 1400-01 Date Expires: 07/24/2019 (Pot) Date Expires: 11/03/2019 (Disc) Phone Number: (847) 724-7880 Material Code: 70308 (Pot) Material Code: 70322 (Disc) <a href="http://www.tobiengineering.com/">http://www.tobiengineering.com/</a></p>	<p>Cosmec, Inc. 1501 Rocky Ridge Road P.O. Box 2159 Athens, TX 75751 Producer Number: 5522-02 Date Expires: 11/17/2020 (Disc) Contact Name: Kerry Marchand Phone Number: (508) 455-3290 Material Code: 70322 (Disc) <a href="http://www.cosmecinc.com">http://www.cosmecinc.com</a></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  
High Load Multi-Rotational Bearing  
Evaluation and Prequalification**  
Effective: January 20, 2017

**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 IDOT specification for HLMR bearings <http://www.idot.illinois.gov/Assets/uploads/files/Doing-Business/Manuals-Guides-&-Handbooks/Highways/Bridges/Bridge-Special-Provisions/gbsp13.pdf> shall provide two copies of a system approval package to the Department for review and evaluation. As a minimum, the system approval package should contain the following:

- 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 excessive wear, 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.
  - Photographs of the complete bearing assembly, and of each of the primary components before testing.
  - Certified copies of any test reports on the physical properties of the component materials for the bearing tested and a certification stating the bearing assembly furnished conforms to all the requirements specified in the Special Provision for HLMR Bearings. Submittals with insufficient test data and supporting certifications will not be accepted.
  - The actual complete bearing assembly after testing shall be shipped to the Department.

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Two copies of the system approval package shall be submitted to:

Illinois Department of Transportation  
Bureau of Bridges and Structures  
2300 South Dirksen Parkway  
Springfield, IL. 62764  
Attn: Design Section.

Actual tested bearing assembly (including all components) shall be submitted to:

Illinois Department of Transportation  
Bureau of Materials and Physical Research  
126 East Ash Street  
Springfield IL 62704-4766  
Attn: Metals and Misc. Products Technical Coordinator

If you have any questions concerning the specification or the requested information, please contact Kevin Riechers at 217-782-9109 of our Policies, Standards and Specifications Unit.

**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.

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**Instructions for Acknowledgement by Company:**

The owner, partner, or corporate officer shall complete the following and return a signed and dated copy with the product submittal or recertification.

\_\_\_\_\_ desires to obtain approval of materials to be  
(Insert name of company)  
supplied to Department of Transportation contractors as more fully described herein. I  
and \_\_\_\_\_ understand that the Department of Transportation  
(Insert name of company)  
reserves the right in its contracts to approve materials at the source of supply as  
provided in Article 106.01 of the Standard Specifications for Road and Bridge  
Construction. I and \_\_\_\_\_ further understand that approval of  
(Insert name of company)  
company supplied material pursuant to this request does not constitute a contract to  
supply material to the State of Illinois or any of its contractors, and that the Department  
of Transportation does not assure or guarantee that any materials approved hereunder  
will be supplied to the State or any of its contractors. In consideration of approval, I and  
\_\_\_\_\_ agree to the terms, conditions and performance  
(Insert name of company)  
standards of the Standard Specifications for Road and Bridge Construction.

Type of Company:    Individual     Partnership     Corporation

Company Name \_\_\_\_\_

Printed Name \_\_\_\_\_

Signature \_\_\_\_\_

Title \_\_\_\_\_

Business Address \_\_\_\_\_

City/State/Zip Code \_\_\_\_\_

Email Address \_\_\_\_\_

Phone Number \_\_\_\_\_

Date of Signature \_\_\_\_\_