



QUALIFIED PRODUCT POLICY 24 FOR MANUFACTURERS OF ELASTOMERIC BEARING PADS

1.0 General:

In accordance with Section 724 of the SCDOT Standard Specifications, all elastomeric bearings used in South Carolina Department of Transportation (SCDOT) projects must be produced by a manufacturer/fabricator listed on the most recent edition of Qualified Product List (QPL) 24. This policy outlines the requirements for inclusion on QPL 24.

For products to be eligible for use on federal-aid projects, a certification certifying compliance with SCDOT Supplemental Specification "Source of Production of Iron and Steel Products and Construction Materials" (Jan. 1, 2023) must be provided in addition to all other requirements. Certification may be submitted to the contact below requesting prequalification.

2.0 Initial:

A producer may request to be added to QPL 24 by submitting the following:

2.1 A letter detailing the following:

- Company name
- Company address
- Location of manufacturing facility if different from company address
- Contact information for company representative
- Contact information for quality control manager
- The types of bearings to be fabricated (plain and/or laminated)

2.2 A certification (including test results of typical bearing pad) demonstrating that the product meets the requirements of at least the following:

- SCDOT Standard Specifications, Section 724
- AASHTO M 251
 - Shear Modulus of Elastomer
 - Tensile Strength of Elastomer
 - Ultimate Elongation of Elastomer
 - Load Testing per AASHTO M 251, Section 8.8.2
 - Bond Strength per AASHTO M 251, Appendix X2 (If producing laminated bearings)

2.3 A sample of the product

- If producing plain elastomeric bearings, submit a sample of a plain elastomeric bearing of typical formulation and workmanship.
- If producing laminated elastomeric bearings, submit a laminated bearing pad of typical formulation and workmanship.

A request to qualify a manufacturer along with samples and certifications should be submitted to:

Caleb Gunter, PE
Structural Materials Engineer
SCDOT Office of Materials and Research
1406 Shop Road
Columbia, SC 29201
(803) 737-6694
Email: guntercb@scdot.org

When the Office of Materials and Research is satisfied with the manufacturer's performance in fabrication and testing, the manufacturer will be added to QPL 24 and will be authorized to conduct the tests and certify the results.

3.0 After Initial Qualification:

After initial qualification of a manufacturer, further samples will not be necessary for additional projects awarded at a later date. However, the Department reserves the right to sample and test bearings at any time or to require repeat prequalification.

A certification is required with each shipment of elastomeric bearings. This certification must demonstrate (with test results from a bearing produced with this shipment) that the bearings meet the Durometer Hardness requirements shown on the Plans and the requirements of Section 2.2 of this Policy.

The Department reserves the right to perform inspections or to send consultant agencies to perform inspections at the producer's facility during production of bearings for SCDOT projects.

After qualification, the SCDOT contact above must be notified immediately of any elastomer formula changes and the requirements outlined in Section 2.2 and 2.3 of this specification must be submitted for the new formulation. **Additionally, the formulation change may require a new certification of compliance for source of production as noted in this Policy to remain prequalified for federal projects.**