

MaineDOT Qualified Products Acceptance Criteria

Composite Concrete Reinforcement

Overview

This product acceptance criteria is for Composite Concrete Reinforcement (CCR) such as glass fiber reinforced polymer bars that have been manufactured for the purpose of concrete reinforcement. It does not apply to Hybrid FRP materials or bars, and bars that have not had their exteriors enhanced for concrete reinforcement. This product category requires participation in the AASHTO Product Evaluation & Audit Solutions program. As of August 1, 2024, all new submittals shall have a compliant AASHTO audit at the time of submission. All products currently on the QPL shall have a compliant audit completed through the AASHTO program by August 1, 2025 to remain on this qualified products list.

Criteria

CCRs must have a compliant audit through AASTHO Product Evaluation & Audit Solutions (formerly NTPEP) and shall comply with their audit schedule and the criteria herein. No submittals will be evaluated without test data and associated compliant audit. The information and data provided through the audit process shall be used for decisions regarding inclusion on MaineDOT's QPL for this product category.

All glass fiber reinforced polymer bars must meet the standards in ASTM D7957, this includes geometric, material, mechanical, and physical properties.

In addition to the above requirements, all GFRP bars will meet the following

- Minimum Tensile Strength = 100,000 psi
- Minimum Ultimate Tensile Strain = 1.10%
- Minimum Elastic Modulus = 8,700,000 psi

MaineDOT Standard Specifications: Current Version ASTM D7957

PRODUCT CONFORMITY: At the discretion of MaineDOT, any shipment of product to a MaineDOT location may be tested, such as by infrared or gas chromatography, for compliance with the SDS and uniformity with the formulation of the approved product (where applicable).

NOTE: MaineDOT may require a field evaluation before final acceptance and inclusion on the Qualified Products List (QPL).

A vendor who wishes to have products preapproved for future use should contact MaineDOT's Product Evaluation Coordinator via email at NewProducts.MaineDOT@maine.gov or by calling (207) 557-1788

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Submittals

Product Submittal Packets shall include a COMPLETETED:

- New Product Evaluation form
- Current Technical Data Sheet
- Current Safety Data Sheet (SDS)
- Third Party, Independent Test Results OR AASTHO Product Evaluation & Audit Solutions (formerly NTPEP) testing ID for those products requiring this testing

Incomplete submittals will not be evaluated for inclusion on MaineDOT's Product Lists.

All reports shall be issued and signed by an authorized laboratory representative. The report shall include date of testing, product name, and the physical and/or chemical requirements stated herein.

Product Changes

Any change in a product, such as formulation, shall require re-testing (through AASTHO Product Evaluation & Audit Solutions (formerly NTPEP) if required) or independent, third-party lab Manufacturers shall notify MaineDOT of products changes and resubmit as a new product for re-evaluation, failure to do so may result in removal of product from MaineDOT's QPL.

Manufacturers shall resubmit an independent analytical laboratory report (or AASTHO Product Evaluation & Audit Solutions (formerly NTPEP) testing ID) prior to purchase by MaineDOT.

Recertifications

MaineDOT requires re-certification by all manufacturers every five years (except for electrodes used for field welding which are recertified every year) to ensure that product names and formulations have remained the same since the product was originally placed on this list and that products are still relevant and in production. Where applicable, this shall include the most recent AASTHO Product Evaluation & Audit Solutions (formerly NTPEP) testing ID. Additionally, AASTHO Product Evaluation & Audit Solutions (formerly NTPEP) provides for retesting products. A lapse of AASTHO Product Evaluation & Audit Solutions (formerly NTPEP) testing/audit schedule as set forth in the associated workplan shall result in disqualification of the product.

Manufacturers of any products requiring MASH testing must contact MaineDOT Product Evaluation Program of any changes to their products. Manufacturers are responsible for tracking their recertification dates, reminders will not be sent. Failure to recertify products may result in removal form the QPL.

Other Information

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The Department continues to evaluate its Acceptance Criteria and reserves the right to revise the criteria and/or withdraw product qualification at any time for any reason without notice.

Furthermore, the ability of a product to meet these requirements does not necessarily guarantee addition to the Qualified Products List. Reminder that, products once placed on the Qualified Products List are to be considered prequalified for use only, meaning that they have undergone preliminary review for compliance with MaineDOT, and AASHTO specifications. As with all products, final approval rests with the Designer, Project Manager, Supplier and/or Resident to determine if a product best suits the need of a particular project.

If you are experiencing difficulties reading or printing this page, or have questions regarding the Qualified Products List website, please contact the Product Evaluation Program Coordinator at (207) 557-1788 or by email at: NewProducts.MaineDOT@maine.gov