



QUALIFIED PRODUCT POLICY FOR WELDED WIRE FABRIC FOR CONCRETE REINFORCEMENT

1.0 General:

This policy outlines the requirements to produce welded wire fabric for SCDOT projects. As shown in the SCDOT Standard Specification Section 703, all producers of welded wire fabric for SCDOT projects must be included on Qualified Product List (QPL) 85. To be listed on QPL 85 the producer must participate in the Reinforcing Steel and Wire (RSW) audit and evaluation program of AASHTO Product Evaluation and Audit Solutions.

For more information on this qualification program, visit the AASHTO web site at <https://transportation.org/product-evaluation-and-audit-solutions/>. Producers must be listed as compliant with SP01, "Qualification of Highway Product Manufacturers Through the Use of AASHTO Audits," and RSW, "Evaluation of Reinforcing Steel and Wire Manufacturers."

All welded wire fabric incorporated into SCDOT projects must be manufactured in conformance with the requirements of AASHTO M 336 / ASTM A1064 and SCDOT specifications.

2.0 Initial:

Once AASHTO compliance is achieved, [email](#) the following information:

- A letter requesting inclusion on QPL 85 including the following:
 - Physical address of the facility
 - Name and contact information for Quality Control Supervisor/Point of Contact
- A copy of the most recent AASHTO compliance certificate.
- A copy of the AASHTO audit report and comparison test results.
- A copy of the producer's response to any deficiencies noted.

Submit to:

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Structural Materials Engineer
SCDOT Office of Materials and Research
(803) 737-6694
guntercb@scdot.org

2.1 Comparison test data will be reviewed according to the following criteria

2.1.1 AASHTO Comparison

- The test results from each comparable individual wire specimen shall not vary between laboratories by more than the following
 - Tensile Strength: 10.0%
 - Unit Weight (deformed wire only): 5.0%
- The average test results for the same fabric sample tested by each laboratory shall vary between laboratories no more than the following:
 - Tensile Strength: 5.0%
 - Unit Weight: 2.0%

2.1.2 AASHTO/ASTM Specification Compliance

- All Producer and AASHTO test results shall meet the applicable AASHTO/ASTM specifications (i.e., AASHTO M 336 / ASTM A1064)

2.2 Causes for Rejection

2.2.1 AASHTO Test Result Comparison

- More than 10% of comparable test results (including individual wire results and average fabric sample results) fail to meet the comparison tolerance listed in Section 2.1.1

2.2.2 AASHTO/ASTM Specifications

- More than one sample fails to meet tensile strength requirements as described below.
 - A sample is deemed to have failed if more than one longitudinal wire fails to meet the required tensile strength or more than one transverse wire fails to meet the required tensile strength based upon the reported mill testing or AASHTO testing.
- More than one sample fails the bend test.

2.3 When submitted, successful AASHTO certification documentation will be reviewed. If the accompanying test data meet the requirements in Section 2.1 through 2.3, the producer will be added to QPL 85.

3.0 Annual:

- 3.1 The welded wire fabric producer must be audited annually by AASHTO to remain on QPL 85. If at any time the welded wire fabric producer becomes non-compliant with the RSW program, that producer will be removed from QPL 85 until they are reinstated to a state of compliance.
- 3.2 If the producer's annual AASHTO comparison testing fails to meet the requirements listed in Section 2.1 and 2.2, that producer will be removed from the QPL until they have provided sufficient evidence that they have addressed the issues causing the failures.
- 3.3 The SCDOT retains the right to visit and audit any welded wire fabric producer's facility and randomly select samples of product and perform testing or witness testing by the producer. The SCDOT also retains the right to sample welded wire fabric from SCDOT projects and perform AASHTO/ASTM specification compliance testing.
- 3.4 The SCDOT may require and review additional information, including information related to AASHTO findings, and require additional testing or documentation before the producer's mill can be added to QPL 85.
- 3.5 In the event that the welded wire fabric producer appears to be in compliance with all the requirements of this policy, but the end product does not meet the Department's specifications, the Materials and Research Engineer may take steps towards suspending the producer's SCDOT qualification status. If the problem has not been properly corrected within 30 business days, the department may revoke the qualification status of the producer until the producer demonstrates that all the issues have been properly resolved.