

**STATE OF OHIO
DEPARTMENT OF TRANSPORTATION**

**SUPPLEMENT 1068
REINFORCING STEEL AND WELDED WIRE MESH CERTIFICATION PROGRAM
April 15, 2005**

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1068.01 Scope

Reinforcing steel, welded wire mesh, dowel bars and mechanical reinforcing steel splice (RWWS) materials (RWWS) meeting the Department's Construction and Materials Specifications, 509.09, 709.00 thru 709.14, standards or plans will be acceptable for direct shipment and immediate use in construction projects. Producer/suppliers conforming to this supplement are authorized to provide certified RWWS materials. This supplement makes no changes or revisions of any ODOT, ASTM or AASHTO specifications for the RWWS materials. Producer/suppliers will direct ship fence material to ODOT projects. Certified materials are not transferable.

1068.02 General Program Requirements

Producer/suppliers conforming with this supplement become responsible for assuring all certified RWWS materials meet specification requirements by:

- A. Understanding and ordering RWWS materials in conformance with applicable specifications.
- B. Assuring certified test results are complete, accurate and conform to specification requirements.
- C. Performing any actual physical tests, either mechanical, dimensional, coating or chemical, to document specification compliance.
- D. Documenting materials shipment by using the Department's electronic certification form (TE-24)
- E. Establishing quality control systems assuring specification materials are shipped to projects.
- F. Keeping all documentation that provides proof materials conform to specifications. Keep records for three (3) years from date certified. Include certified test data, quality control records, physical test results, and shipping documents.

- G. Furnishing quarterly reports on materials shipped to ODOT projects including quantity, size, heat number and manufacturer.
- H. Providing a producer/supplier Quality Control Plan (QCP) which details all processes listed above.

1068.03 Producer/Supplier Certification Procedure

Submit a letter to the Administrator, Office of Materials Management (OMM) requesting inclusion into the program. Sign the letter by a company representative having the legal authority to bind the company to the requirements of this supplement. Include:

- A. the legal name of the company
- B. the location and address of the company where RWWS materials will be stored and shipped from.
- C. a statement that the company representative read and understands the responsibilities required of a certified producer/supplier conforming to this supplement.
- D. the quality control representative's (QCR) name. The producer/supplier's QCR will be the Department's point of contact and is accountable for compliance to the QCP.
- E. a list of RWWS construction items (1068.08) the producer/supplier will be supplying under certification. Include the specific reinforcing steel sizes and/or welded wire fabric sizes and spacings being supplied.

1068.04 Producer/Supplier Quality Control Plan

Submit a written Quality Control Plan (QCP) to OMM for approval. Include the procedures and processes for ordering, testing, accepting, verifying, controlling, storing, shipping, documenting and recording RWWS materials compliance with specifications. Include at least the following:

Procedures for assuring materials meet applicable ODOT, ASTM or AASHTO specifications including:

- A. Performing acceptance tests on any materials where no test data exists. [if performing, or having tests performed, provide evidence of ability to test and to certify all test results. Approved private laboratories may also be used]
- B. Evaluating test results against specifications assuring materials meet requirements for both test results and frequency of testing.
- C. Evaluating certified test results of sub-suppliers for compliance with all specification requirements. (A certified producer/supplier is responsible for acceptability of all materials that are shipped under their TE-24 certification document.)
- D. Assuring RWWS materials have the required verification, certification and documentation required by this certification program.
- E. Assuring complete and accurate materials shipments. Have defined QC procedures for assuring shipments are not made until materials test results are complete, documented and accepted.
- F. Describe methods for tracking, retrieving and/or identifying non-specification materials shipped in spite of item (e), including notification of ODOT
- G. Describe, tracking, controlling and processing methods to tie tests, tests results, and certified

test data to certification shipment and the bill of lading.

- H. assuring quarterly reports are furnished the Department on or before the 15th of the 1st, 4th, 7th, and 10th months of the year.
- I. Define documentation systems used for the three(3) year documentation retention period.
- J. How the QCR will be ODOT's point of contract and responsibility for certification. Describe the QCR responsibilities in the QCP. Describe other employee's specific responsibilities if more than one employee will be involved in certification duties.

1068.05 Quality Control Plan Acceptance

Submit your QCP to OMM for review. OMM will review the QCP within 30 days and accept, reject or accept as noted. Revise and re-submit rejected QCPs. Revise and forward accepted as noted QCPs for the record.

There is no standard quality control plan. Each producer/supplier will develop their plan. ODOT will not provide standard plans. Provide a QCP's above the minimum is help assure a quality operation. ODOT will meet with any producer/supplier to help eliminate multiple submissions, misunderstandings and communication issues.

1068.06 Supplier/Producer QCR Training

The Quality Control Representative (QCR) may complete an ODOT training program.

1068.07 Supplier/Producer QCR Competency Demonstration

Request a site visit by the Department's fencing Quality Assurance Inspector (QAI) after the QCP and QCR are accepted. The QAI will witness the QCR's capability to perform materials evaluation, testing, verification, documentation and record keeping for materials compliance and conformance with the QCP and specification requirements.

1068.08 Shipping of Certified Materials to a project

Ship certified materials to projects using the TE-24 electronic documentation program. Producer/suppliers will be furnished sample ID numbers for each RWWS construction material item they are certified to supply. Include a bill of lading with any certified RWWS materials shipments.

RWWS construction material items include:

- | | | |
|----|--|-------|
| 1. | Reinforcing steel - uncoated | lb/kg |
| | a. Standard reinforcing steel all sizes and spirals | |
| 2. | Reinforcing steel - Epoxy coated | lb/kg |
| | a. Standard epoxy coated reinforcing steel all sizes and spirals | |
| | b. Touch up kits (not listed but shipped with) | |
| 3. | Welded wire fabric | SF/SM |

- a. Standard welded wire
- 4. Welded wire fabric - Epoxy coated SF/SM
 - a.. Standard epoxy coated welded wire b. Touch up kits (not listed but shipped with)
- 5. Deformed welded wire fabric SF/SM
 - a. Standard deformed wire fabric
- 6. Deformed welded wire fabric - Epoxy coated SF/SM
 - a. Standard deformed wire fabric
- 7. Dowel bars (with or without baskets) lb/kg
 - coated
 - uncoated
- 8. Reinforcing steel splices - coated or uncoated Each

* Use actual quantity for all items.

Producer/suppliers not currently on the TE-24 system can access the Department's web site for application information [<http://www.dot.state.oh.us/testlab/applists/vWarehouse/odotvw.htm>] or call OMM at 614-275-1300.

Properly complete a TE-24 for project shipment. Refer to the Department's web site for instructions. Correct TE-24s include:

- 1. State Project number
- 2. The correct construction item
- 3. The quantity of the construction item shipped
- 4. Correct reference number of the project item [for projects where there are multiple reinforcing items each reference number will have a separate entry on a correct TE-24]
- 5. The correct sample ID number

Delivery of Individual RWWS construction material items may be by various certified suppliers. Further breakdown of the materials components for certification is not an option. Producer/supplier's are responsible for acceptability of materials shipped under their TE-24.

Transfer of materials by TE-24 is not an alternative.

1068.09 Quality Assurance

Random inspections will be performed. ODOT quality assurance inspectors (QAI) will check testing procedures, QCP compliance, actual dimensions and coating thicknesses, and documentation at the certified producer/supplier. OMM may obtain random samples from the producer/supplier's stock or at the project. Random samples will be tested. For any non-specification materials, OMM will determine the

cause.

Following the accepted QCP which documents specification compliance relieves the producer/supplier of responsibility for non-specification material. Failed samples may require modifying the current accepted QCP. Not conforming with the accepted QCP makes the producer/supplier responsible for replacement of non-specification material and possible loss of certification under 1068.10.

1068.10 Loss of Certification

Producer/suppliers not conforming with their QCP and/or specification requirements may lose certification. Criteria for loss of certification is:

- 1 Three (3) non-compliance items in a single QA inspection of a producer/supplier.
- 2 Any single non-compliance item repeated three (3) times in any six(6) month period.
- 3 Two (2) non-compliance items in two (2) consecutive QA inspections.

Items 1 thru 3 defined by the QAI as non-critical or unusual may allow the producer supplier retention of certification but will require revising their QCP; providing additional training for their QCR; and/or redemonstrating understanding of the QCP processes.

- 4 QAI validation of improper materials testing, incomplete test results or false test data will mean loss of certification.

Producer/suppliers will lose certification under four (4) and are responsible for replacement of all nonconformance materials.

- 5 Loss of a producer/suppliers Quality Control Representative

Appeal Items 1 thru 3 to the Administrator of the Office of Materials Management. There is no of items 4 and 5 . There will be no grace period for removal. Minimum removal period is 180 days.

1068.11 Re-certification

Producer/suppliers may re-apply for certification after their removal period. For removal under 1068.10, item 5, the Producer/supplier may end the removal period by supplying an acceptable QCR.

Designer's Note

None required. Supplement establishes procedures for becoming a certified reinforcing steel, wire mesh, dowel bars and rebar splice materials supplier. Activation of the supplement will be through boiler plate proposal note and direct reference in the specifications.