

MATERIALS SOURCE GUIDE

August 2024



CONSTRUCTION FIELD SERVICES
DIVISION

Foreword

This manual has been prepared to give information and guidance to personnel associated with sampling, testing and inspection of materials used in Michigan Department of Transportation projects. Its purpose is to supplement the Materials Quality Assurance Procedures (MQAP) Manual, Hot Mix Asphalt (HMA) Production Manual, Procedures for Aggregate Inspection, Density Control Handbook, and the Michigan Construction Manual to standardize procedures and assure adequate, uniform quality control.

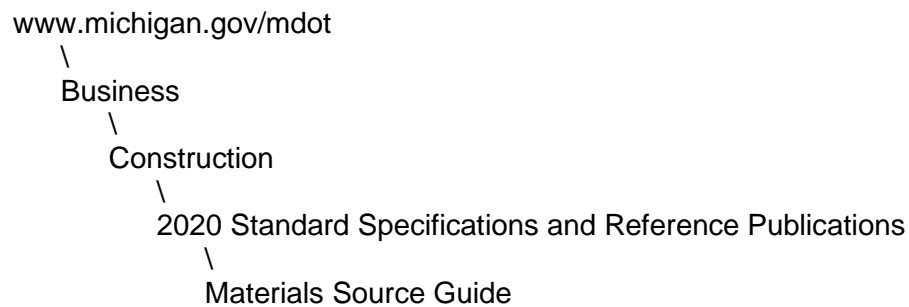
Buy America step certification is required for pay items and materials as listed in the document located here. Please also review the Special Provision for Source of Steel and Iron (Buy America), 20SP105(A) and the Special Provision for Source of Construction Materials, 20SP105(B) available under the heading of MDOT Supplemental Specs and Special Provisions (SS/SP) through the MILogin system.

For copies of the most recent Materials Source Guide you can:

Download from the internet at web address:

https://www.michigan.gov/mdot/0,4616,7-151-9622_11044_11367_68095---,00.html

Or Navigate by:



Periodically check the website for updates to the Materials Source Guide. Updated guides can be downloaded and printed.

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This manual is in accordance with the 2020 Standard Specifications for Construction.

Definitions

(References to the Materials Quality Assurance Procedures Manual-MQAP)

Basis of Acceptance: Refers to the method by which materials incorporated into MDOT projects are accepted. Below is a list of all the current Basis of Acceptance methods used by MDOT for acceptance of materials.

- Visual Inspection (VI): (See MQAP Section 1.06) Materials which may be visually inspected by MDOT personnel for acceptance or rejection. When a maximum VI limit is given for materials with another specified basis of acceptance, materials may be accepted by VI up to maximum VI quantities as indicated for that material, per item, per contract. (NOTE: All materials should be visually inspected prior to incorporation into the job without quantity limit, and may be rejected on that basis even though material may be acceptable on another basis.)
 - Qualified Product List (QPL): (See MQAP Section 5.01) Products that have been tested and/or evaluated by MDOT and found to meet performance and/or other specification requirements. A Qualified Products List (QPL) of these products is maintained within this document. All QPL materials must be documented per Section 5.01 of the MQAP.
- General Certification (Gen Cert): (See MQAP Section 2.01) When this certification is specified as the basis of acceptance in the contract documents, it must be provided in accordance with Section 2.01 of the MQAP. A general certification must include a general description of the material(s), a list of the applicable specifications (ASTM, AASHTO, MDOT or other designations as appropriate), and a statement that the material(s) conforms to these specifications.
- Test Data Certification (Test Data Cert): (See MQAP Section 2.01) When this certification is specified as the basis of acceptance in the Materials Acceptance Requirements Table, in addition to the requirements of a General Certification, the certification must also include laboratory test report(s) for samples obtained from the same lot(s), batch, heat, etc. of material represented by the certification and tested according to applicable specifications (ASTM, AASHTO, MDOT).
- Approved Manufacturer (Appr Mfr): (See MQAP Section 2.02) A manufacturer who has submitted quality control documentation and/or material samples, and has been given approval status to certify specific material(s). General Certification per the requirements of Section 2.01 of the MQAP must accompany all Approved Manufacturer shipments to either an Approved Supplier location or the MDOT project site. Strict adherence to the requirements for Certification Documentation and Distribution is required of all Approved Manufacturers.
 - Approved Supplier: (See MQAP Section 2.02) When Approved Manufacturer is specified as the basis of acceptance in the contract documents, the material must be supplied by the manufacturer or, without modification to the material, by an Approved Supplier. An Approved Supplier must recertify Approved Manufacturer material(s). Strict adherence to the requirements for Certification Documentation and Distribution is required of all Approved Suppliers for the recertification of material(s). All original Approved Manufacturer General Certification(s) must accompany the material(s) shipment to the MDOT project site. When Approved Manufacturer is specified, a supplier may not distribute or recertify material(s) unless they have been granted Approved Supplier status.

- Special Provision: Revisions and additions to the Standard and Supplemental Specifications applicable to an individual project. Special Provisions have been reviewed and approved for use by MDOT. Materials acceptance may be defined by these documents included in the project proposals.
- Fabrication Inspection (Fabrication Inspection): Materials subjected to Fabrication Inspection are those that are typically manufactured offsite and shipped to the project. Refer to the proper subsection of the Structural Fabrication Quality Manual (SFQM) to find the requirements of the various Fabrication Inspections currently performed by MDOT.
- Acceptance Testing (Test): Sampling and testing of a material to determine compliance with specification requirements prior to incorporation into the project. Acceptance testing is the required basis of acceptance for some materials, as indicated in the contract documents, but may be applied to all materials regardless of the basis of acceptance.

Other Definitions

Manufacturer: A producer or fabricator of materials with control over the quality, workmanship and handling of material.

Supplier: A supplier has no control, other than through careful handling, over the quality and workmanship of material.

Certification Documentation (See MQAP Section 2.01)

Where more than one piece of paper is included in the certification document, all pages must be numbered (__ of __) and include Contract I.D. in order to reunite them should they become separated.

Stencil, stamp, or otherwise mark all certified material prior to delivery to a supplier or project. This mark must identify the AASHTO, ASTM, or MDOT specification that the material meets, to allow the material to be recognized and checked against the certification document.

General Certification – This documentation must consist of all of the following:

- Company name, address and contact information.
- Date the certification was produced.
- Contract number (Control Section/Job Number).
- Name of contractor.
- If material is certified by a supplier or Contractor, the manufacturer's name must be included on the certification.
- A list of all applicable specifications (ASTM, AASHTO, MDOT or other designations as appropriate) which the material is certified to meet.
- Any applicable specification modifier such as class, grade, type, etc.
- Name of material (MDOT designation and Spec Number).
- Identification markings on shipment as required by the General Materials Certification Procedures, in the Quality Assurance Procedures Manual, Section 2.01.03.B.

- A statement, signed by a responsible representative of the manufacturer, supplier, or Contractor that the material represented by the certification meets all MDOT listed specification requirements.

Test Data Certification - When this certification is specified as the basis of acceptance in the Materials Acceptance Requirements Table, in addition to the requirements of a General Certification, the following information must also be included:

- Laboratory test report(s) for samples obtained from the lot(s) of material represented by the certification and tested according to applicable specifications (ASTM, AASHTO, MDOT).

Certification Distribution

All certification documents except those issued by Approved Manufacturers/Approved Suppliers must be distributed as follows: Submit to the Construction/Project Engineer. The Contractor is ultimately responsible for all materials documentation distribution to the Project Engineer's office.

Approved Manufacturer/Approved Supplier Certifications must follow the above distribution requirements with the addition of one a copy being mailed or emailed on the date of shipment to:

Michigan Department of Transportation
Construction Field Services Division
Materials Control
P.O. Box 30049
Lansing, Michigan 48909
Facsimile: (517) 322-5664
Email: MDOT-MaterialsControl@michigan.gov

Certifications and Recertification

Information required on certifications may vary from one material to the next. The following examples of certification documents are only provided for reference.

Materials Source List (See MQAP Section 1.04)

A completed and signed Materials Source List (Form 501) is required project documentation, and required for payment of associated items of work. The Materials Source List is not a substitute for other required material quality control and quality assurance documentation. Prime contractors are responsible for accurate submission of the Materials Source Lists for all materials including their subcontractors.

Clear Form

MATERIALS SOURCE LIST

INSTRUCTIONS: Use the "Materials Source Guide" for material name and specification number. Enter "SP" for MDOT SPEC NUMBER for materials specified by special provision. To avoid delays, submit as soon as possible. No testing of materials will be conducted until the Engineer has been notified. Contractor to submit form to Engineer in ProjectWise Contractor Inbox. The Engineer will populate the remaining fields and distribute to Region/Transportation Service Center (TSC) Materials Supervisor.

Specification (SPEC), Certifications (CERTS), Visual Inspection (VI), Special Provision (SP), Fabrication Inspection (FI)

CONSTRUCTION/PROJECT ENGINEER	CONTRACTOR							CONTRACT ID	
PROJECT LOCATION									
MDOT SPEC NUMBER	MDOT MATERIAL/PRODUCT NAME	TYPE/SIZE or CLASS	APPROXIMATE QUANTITY	SOURCE OF MATERIAL (NAME, ADDRESS, LOCATION, AGGREGATE SOURCE INVENTORY (ASI) NUMBER)	BASIS OF ACCEPTANCE				REMARKS/OTHER
					TEST CERTS	VI	SP	FI	
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Check here if there are any revisions. Mark any revisions with an asterisk.

CONTRACTOR CONTACT NAME	PHONE NUMBER
ENGINEER REPRESENTATIVE NAME	PHONE NUMBER

Additional Page	DATE SUBMITTED
CONTRACTOR CONTACT E-MAIL ADDRESS	DATE RECEIVED
ENGINEER REPRESENTATIVE E-MAIL ADDRESS	DATE RECEIVED

Enter Your Company Letterhead/Logo Here
(Name, Address, Contact Info)

General Certification

Date: _____ Name of Contractor: _____

Control Section/Project #: _____ Project/Job Location: _____

We certify that the following described materials/products meet the specification requirements of the Michigan Department of Transportation, ASTM, or AASHTO.

MDOT Material Name: As described in the MDOT Materials Source Guide

MDOT Spec #: As described in the MDOT Materials Source Guide

Lot #, Heat OR Identification:

Class, Grade OR Type:

Size or Weight:

Signature of Company Representative

Printed Name of Company Representative

Title of Company Representative

Distribution: Submit to the Construction/Project Engineer

Enter Your Company Letterhead/Logo Here
(Name, Address, Contact Info)

Approved Supplier Recertification

Contract ID:
Control Section/Job #: _____ Date: _____

Contractor: _____

We certify that the following described material meets the specification requirements of the Michigan Department of Transportation for the above project and this material is certified by the manufacturers indicated below.

MDOT Material Name: As described in the MDOT Materials Source Guide
MDOT Spec #: As described in the MDOT Materials Source Guide
Manufacturer:
Lot, Heat or Identification:
Quantity:
MDOT Material Name: As described in the MDOT Materials Source Guide
MDOT Spec #: As described in the MDOT Materials Source Guide
Manufacturer:
Lot, Heat or Identification:
Quantity:
MDOT Material Name: As described in the MDOT Materials Source Guide
MDOT Spec #: As described in the MDOT Materials Source Guide
Manufacturer:
Lot, Heat or Identification:
Quantity:

All steel, iron, and/or applicable construction materials furnished on this certification is of domestic origin and is in compliance with the project Buy America and Source of Construction Materials provision.

Signature of Company Representative

Printed Name of Company Representative

Title of Company Representative

Distribution: Submit to the Construction/Project Engineer. Submit one additional Copy mailed or emailed to Construction Field Services Division, MDOT, P.O. BOX 30049, LANSING, MI 48909, or via email to MDOT-MaterialsControl@michigan.gov , complete on date of material Shipment.

Materials Acceptance Requirements Table Definitions

Sampling Frequency: (If Required) Amount of material or number of items, as defined in the Materials Acceptance Requirements Table or other contract documents, which require a sample when submitting material to the Construction Field Services Division for testing.

Size of Sample: Minimum size of sample required for testing as defined in the Materials Acceptance Requirements Table or other contract documents.

Maximum VI Quantity: Maximum amount of material which can be accepted by visual inspection for each material, per item, per project.

Remarks: Special notes pertaining to individual materials.

Special Instructions: More detailed information pertaining to particular types of materials, and referenced in "Remarks" or listed in the Materials Source Guide.

Note: When the Basis of Acceptance is not "Test", the sampling criteria provided may be used as guidance if the Project/Construction Engineer determines there may be a problem with the material and requests sampling and testing.

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Materials Acceptance Requirements

See Miscellaneous area at the end of table for materials deleted from the 2020 Standard Specifications for Construction.

* Must be tested unless provided by an Approved Manufacturer.

** When the Basis of Acceptance is not "Test", the sampling criteria below may be used when there are concerns with material quality.

Spec. No. and Material Name	Basis of Acceptance	Sample Frequency If Required by the Engineer*	Sample Size	Maximum VI Quantity	Remarks (QPL Reference)
401.03E End Section Grate for Culverts	VI	-	-	-	See Standard Plans for Sizes.
401.03E Precast Concrete Headwalls	Gen Cert	-	-	-	24" or less. For larger than 24" construct per Section 706 of Standard Specifications.
404.02C Underdrain Outlet Endings	VI	-	-	-	See Standard Plans.
501.02 Asphalt, Release Agents	VI	-	-	-	
NOTE: Must be approved by the project engineer. No fuel or oil-based agents.					
603.03B2 Adhesive Systems for Grouting Dowel Bars and Tie Bars for Full-Depth Concrete Pavement Repairs	VI See Remark	-	-	-	Must be a Qualified Product (603.03B2).
Note: Use for grouting to existing concrete in the same direction of traffic in the same lane as the repair. For grouting lane ties (deformed bars positioned transverse to the direction of traffic located between traffic lanes) select from Adhesive Anchor Systems for Structural Anchors and Lane Ties (712.03J).					
706.03K4 Expansion Joint Devices for Bridges	See Remark	-	-	-	See project plans for list of approved devices and details.
706.03S Penetrating Water Repellent (Protective Coating for Concrete)	VI See Remark	-	-	-	Must be a Qualified Product (706.03S).

