



Structural Materials and Pavement Markings Division

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Material Quality Assurance Processes

Liquid Pavement Marking

Structural Materials and Pavement Markings Division

QA / Frequency Guide, Source Level Material Listing Page 1 of 2

Source Level Materials	Specification	Comments
White Waterborne Pavement Marking Paint	951.01	Buy America Applicable
Yellow Waterborne Pavement Marking Paint	951.01	Buy America Applicable
White High Binder Thermoplastic (40-mil)	951.05	Buy America Applicable
Yellow High Binder Thermoplastic (40-mil)	951.05	Buy America Applicable
White Epoxy Pavement Markings	951.03	Buy America Applicable
Yellow Epoxy Pavement Markings	951.03	Buy America Applicable
White Thermoplastic (90-mil)	951.04	Buy America Applicable
Yellow Thermoplastic (90-mil)	951.04	Buy America Applicable
White Polyurea Pavement Markings	951.10	Buy America Applicable
Yellow Polyurea Pavement Markings	951.10	Buy America Applicable
Green Methyl Methacrylate	Special Provisions	Buy America Applicable
Red Methyl Methacrylate	Special Provisions	Buy America Applicable
White Methyl Methacrylate	Special Provisions	Buy America Applicable
Yellow Methyl Methacrylate	Special Provisions	Buy America Applicable

Plant or Product Qualification

Pavement Marking Facility Review

Facility Qualification

Producers must be inspected and qualified for use before they are eligible to supply to state projects and within three years of their last qualification. During the review the manufacturer shall provide a quality control plan that will be reviewed and approved by OMT. If approved the QC plan shall be authorized and sent back to the production facility, a copy will be kept with OMT.

Inspection of Production Facility

1 per 36 Months

Pavement Marking Product Review

Product Qualification

Products of this material category must be qualified prior the source request to be considered for usage on State projects. The current Qualified List and procedures to be included on the list can be found at <http://www.roads.maryland.gov/index.aspx?PageID=600>.

Qualification of Material Product

1 per 1 Prior to Source Request

Material Quality Assurance Processes

Liquid Pavement Marking

Structural Materials and Pavement Markings Division

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Pavement Marking Product Acceptance

Product QC/QA

Each batch of material is to be tested and authorized by OMT before it is used on a State project. The SHA inspector will sample the material at the production facility and submit the sample along with a certification with test data to the Pavement Marking team for review and testing (with the assistance of the Chemical Team). If approved, the certification will be stamped and returned to the producer. This stamped document will need to accompany all deliveries of the material to the project. This process authorizes the batch of product to be used on any SHA project that has already sourced the same producer and product.

Material sample to be taken by SHA and Producer to provide material certification conforming to TC 1.03 w/ test data to SHA for review, testing, and stamping. The stamped certification will be returned to the producer.

Sample Size: Paints: 3-1 Pint; Epoxy 3-1 Pint (Each Component); Thermoplastic: 1 gallon

1 per 1 Batch, Lot or Heat

Source Approval

Source Submission

Source of Supply Submittal

A name and address of the material sources of supply shall be sent to MMD for review. The producer is the organization that creates the material, the supplier is the one that delivers it to the project.

Material Producers and product must be on a qualified list and associated correctly prior to source approval. If the Contractor sources a producer or product that is not on the qualified list he will be advised that the source approval is contingent on a qualification process, the procedures, and duration. Refer to Facility and Product Qualification tasks above for further information.

Source of Supply Processing

1 per 1 Prior to Usage on Project

Project Construction

Pavement Marking Material Verification at Project Site

Material Verification

The manufacturer/producer shall comply with: Title 23 US Code Section 313 and 23 CFR Part 635.410 for iron and steel products and manufactured products; and 2 CFR part 184 for construction materials. A statement of compliance with 23 CFR part 635.410 for iron and steel products and manufactured products, or 2 CFR part 184 for construction materials from the manufacturer/producer must be included with every delivery to the project and must identify where the material was manufactured/produced.

The stamped certification approving the specific batch of material product will accompany the delivery to the project site. Upon receipt the Project Engineer shall verify the certification as been reviewed, stamped, and matches the delivered material. This certification will be submitted to the Materials Management Division for Materials Clearance. The PE will also ensure the material is of acceptable quality before authorizing its placement.

Project Engineer to collect manufacture's certifications (TC 1.03 w/ test data) and OMT stamped documentation approving the material batch, submit to MMD for clearance.

Project Engineer should take note of the shelf life of the product.

1 per 1 Delivery to Project

Post Placement Project Wide Testing

Project Wide Testing

Once placement is complete OMT shall perform field testing to ensure the proper reflectivity is achieved.

Field Testing at Project Site by the Pavement Marking Team as per MSMT 729.

1 per 1 Item Completion

Material Quality Assurance Processes

Pavement Markers

Structural Materials and Pavement Markings Division

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Source Level Materials	Specification	Comments
Lens for Recessed SRPM without Holders	951.07	Buy America Applicable
Lens for SRPM with holders	951.07	Buy America Applicable
Recessed Pavement Marker Casting	951.07	Buy America Applicable
SRPM Holders	951.07	Buy America Applicable
Temporary Raised Pavement Markers	104.03, 104.03.02	

Plant or Product Qualification

Pavement Marking Facility Review

Facility Qualification

Producers must be inspected and qualified for use before they are eligible to supply to state projects and within two years of their last qualification. During the review the manufacturer shall provide a quality control plan that will be reviewed and approved by OMT. If approved the QA plan shall be stamped and sent back to the production facility, a copy shall be kept with OMT.

Inspection of Production Facility

1 per 24 Months

Pavement Marking Product Review

Product Qualification

Products of this material category must be qualified prior the source request to be considered for usage on State projects. The current Qualified List and procedures to be included on the list can be found at <http://www.roads.maryland.gov/index.aspx?PageID=600>.

Qualification of Material Product

1 per 1 Prior to Source Request

Source Approval

Source Submission

Source of Supply Submittal

A name and address of the material sources of supply shall be sent to MMD for review. The producer is the organization that creates the material, the supplier is the one that delivers it to the project.

RPM lenses that are specifically manufactured for recessed pavement markers or SRPMs are not permitted to be substituted for one another.

Source of Supply Processing

1 per 1 Prior to Usage on Project

Project Construction

Pavement Marking Material Verification at Project Site

Material Verification

The manufacturer/producer shall comply with: Title 23 US Code Section 313 and 23 CFR Part 635.410 for iron and steel products and manufactured products; and 2 CFR part 184 for construction materials. A statement of compliance with 23 CFR part 635.410 for iron and steel products and manufactured products, or 2 CFR part 184 for construction materials from the manufacturer/producer must be included with every delivery to the project and must identify where the material was manufactured/produced.

Material Quality Assurance Processes

Pavement Markers

Structural Materials and Pavement Markings Division

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Project Engineer to collect manufacturer's Certification (TC 1.03 w/o test data), and submit certifications to MMD for clearance.

1 per 1 Delivery to Project

Post Placement Project Wide Testing

Project Wide Testing

Once placement is complete OMT shall perform field testing to ensure the proper reflectivity is achieved.

Field Testing at Project Site by the Pavement Marking Team as per MSMT 729.

1 per 1 Item Completion

Material Quality Assurance Processes

Pavement Marking Mat'l: Other

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Source Level Materials	Specification	Comments
Epoxy for SRPM	951.05	Buy America Applicable
Glass Beads	951.09	Buy America Applicable
Optical Glass Curb Markers	Special Provisions	Buy America Applicable

Plant or Product Qualification

Pavement Marking Facility Review

Facility Qualification

Producers must be certified every year to be eligible to supply to state projects

Inspection of Production Facility

1 per 12 Months

Pavement Marking Product Review

Product Qualification

New product formulations must be evaluated by SHA prior to consideration for use on State projects. Submit required documentation through the MPEL evaluation system (<http://apps.roads.maryland.gov/mpel/>)

Evaluate new material products through the MPEL process

1 per 1 Prior to Usage on Project

Pavement Marking Product Acceptance

Product QC/QA

Each batch of material is to be reviewed by OMT before it is used on State projects. The producers will submit a material certification with test data to the Pavement Marking team for review. If approved, the certification will be stamped and returned to the producer. This stamped document will need to accompany all deliveries of the material to state projects. This process authorizes the batch of product to be used on any State project that has already sourced the same producer and product.

Producer to submit material certification conforming to TC 1.03 w/ test data to OMT's Pavement Marking team for review, stamping, and return.

1 per 1 Batch, Lot or Heat

Source Approval

Source Submission

Source of Supply Submittal

A name and address of the material sources of supply shall be sent to MMD for review. The producer is the organization that creates the material, the supplier is the one that delivers it to the project.

Source of Supply Processing

1 per 1 Prior to Usage on Project

Project Construction

Material Quality Assurance Processes

Pavement Marking Mat'l: Other

Structural Materials and Pavement Markings Division

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Pavement Marking Material Verification at Project Site

Material Verification

The manufacturer/producer shall comply with: Title 23 US Code Section 313 and 23 CFR Part 635.410 for iron and steel products and manufactured products; and 2 CFR part 184 for construction materials. A statement of compliance with 23 CFR part 635.410 for iron and steel products and manufactured products, or 2 CFR part 184 for construction materials from the manufacturer/producer must be included with every delivery to the project and must identify where the material was manufactured/produced.

The stamped certification approving the specific batch of material product will accompany the delivery to the project site. Upon receipt the Project Engineer shall verify the certification has been reviewed, stamped, and matches the delivered material. This certification will be submitted to the Materials Management Division for Materials Clearance. The PE will also ensure the material is of acceptable quality before authorizing its placement.

Project Engineer to collect OMT stamped manufacturer's certification (TC 1.03 w/ test data) and submit them to MMD for clearance.

1 per 1

Delivery to Project

Material Quality Assurance Processes

Pavement Marking Preformed Thermoplastic

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Source Level Materials	Specification	Comments
White Preformed Thermoplastic Pavement Markings	951.06	Buy America Applicable
Yellow Preformed Thermoplastic Pavement Markings	951.06	Buy America Applicable

Plant or Product Qualification

Pavement Marking Facility Review

Facility Qualification

Producers must be inspected and qualified for use before they are eligible to supply to state projects and within two years of their last qualification. During the review the manufacturer shall provide a quality control plan that will be reviewed and approved by OMT. If approved the QA plan shall be stamped and sent back to the production facility, a copy shall be kept with OMT.

Inspection of Production Facility

1 per 24 Months

Pavement Marking Product Review

Product Qualification

Products of this material category must be qualified prior the source request to be considered for usage on State projects. The current Qualified List and procedures to be included on the list can be found at <http://www.roads.maryland.gov/index.aspx?PageID=600>.

Qualification of Material Product

1 per 1 Prior to Source Request

Source Approval

Source Submission

Source of Supply Submittal

A name and address of the material sources of supply shall be sent to MMD for review. The producer is the organization that creates the material, the supplier is the one that delivers it to the project.

Source of Supply Processing

1 per 1 Prior to Usage on Project

Project Construction

Pavement Marking Material Verification at Project Site

Material Verification

The manufacturer/producer shall comply with: Title 23 US Code Section 313 and 23 CFR Part 635.410 for iron and steel products and manufactured products; and 2 CFR part 184 for construction materials. A statement of compliance with 23 CFR part 635.410 for iron and steel products and manufactured products, or 2 CFR part 184 for construction materials from the manufacturer/producer must be included with every delivery to the project and must identify where the material was manufactured/produced.

Project Engineer to collect manufacturer's Certification (TC 1.03 w/o test data), and submit certifications to MMD for clearance.

1 per 1 Delivery to Project

Post Placement Project Wide Testing

Project Wide Testing

Once placement is complete OMT shall perform field testing to ensure the proper reflectivity is achieved.

Material Quality Assurance Processes

Pavement Marking Preformed Thermoplastic

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Field Testing at Project Site by the Pavement Marking Team as per MSMT 729.

1 per 1 Item Completion

Material Quality Assurance Processes

Pavement Marking Tape

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Source Level Materials	Specification	Comments
Blackout Tape Pavement Markings	951.08.02	Buy America Applicable
White Tape Temporary Pavement Markings		
Yellow Tape Temporary Pavement Markings		
White Tape Permanent Pavement Markings	951.08.01	Buy America Applicable
Yellow Tape Permanent Pavement Markings	951.08.01	Buy America Applicable

Plant or Product Qualification

Pavement Marking Facility Review

Facility Qualification

Producers must be inspected and qualified for use before they are eligible to supply to state projects and within two years of their last qualification. During the review the manufacturer shall provide a quality control plan that will be reviewed and approved by OMT. If approved the QA plan shall be stamped and sent back to the production facility, a copy shall be kept with OMT.

Inspection of Production Facility

1 per 24 Months

Pavement Marking Product Review

Product Qualification

Products of this material category must be qualified prior the source request to be considered for usage on State projects. The current Qualified List and procedures to be included on the list can be found at <http://www.roads.maryland.gov/index.aspx?PageID=600>.

Qualification of Material Product

1 per 1 Prior to Source Request

Source Approval

Source Submission

Source of Supply Submittal

A name and address of the material sources of supply shall be sent to MMD for review. The producer is the organization that creates the material, the supplier is the one that delivers it to the project.

Source of Supply Processing

1 per 1 Prior to Usage on Project

Project Construction

Pavement Marking Material Verification at Project Site

Material Verification

The manufacturer/producer shall comply with: Title 23 US Code Section 313 and 23 CFR Part 635.410 for iron and steel products and manufactured products; and 2 CFR part 184 for construction materials. A statement of compliance with 23 CFR part 635.410 for iron and steel products and manufactured products, or 2 CFR part 184 for construction materials from the manufacturer/producer must be included with every delivery to the project and must identify where the material was manufactured/produced.

Project Engineer to collect manufacturer's Certification (TC 1.03 w/o test data), and submit certifications to MMD for clearance.

Material Quality Assurance Processes

Pavement Marking Tape

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1 per 1 Delivery to Project

Post Placement Project Wide Testing

Project Wide Testing

Once placement is complete OMT shall perform field testing to ensure the proper reflectivity is achieved

Field Testing at Project Site by the Pavement Marking Team as per MSMT 729.

1 per 1 Item Completion

Material Quality Assurance Processes

Material Listing for Structural Materials

Material (Source Level)	Specification	Process Category (Design Level)	Page Number	Material Comment
08" Offset Block		SM Group 9 - Qualified Facilities, Not Sourced	SMPMD-30	
10" Offset Block		SM Group 9 - Qualified Facilities, Not Sourced	SMPMD-30	
12" Offset Block		SM Group 9 - Qualified Facilities, Not Sourced	SMPMD-30	
Adjustment Ring	909.02	SM Group 2 - General Approval with Certification	SMPMD-17	Buy America Applicable
All Purpose Bonding Agent		SM Group 2 - General Approval with Certification	SMPMD-17	Buy America Applicable
Aluminum Signs	813, 950.08.01	SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable
Anchor Bolts, Fabricated Systems	909.08	SM Group 5 - Producer and Batch Data Tracked	SMPMD-23	Buy America Applicable
Applied Fiberglass and Epoxy Pile Wrap		SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Asphalt Saturated Fabric	913.03	SM Group 2 - General Approval with Certification	SMPMD-17	
Bearings, Elastomeric Structural	910.02.01	SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable
Bearings, Structural	910.01	SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable
Bituminous Fiber Filler	911.02	SM Group 2 - General Approval with Certification	SMPMD-17	
Brick Paver		SM Group 3 - Evaluation Before Shipment	SMPMD-19	
Bridge Mounted Sign Supports	433	SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable
Building Brick	903.03	SM Group 3 - Evaluation Before Shipment	SMPMD-19	
Chain Link Fencing	914.01	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Concrete Epoxy Coating	917.01	SM Group 7 - Qualified Facilities, Cert Review	SMPMD-26	Buy America Applicable
Concrete Pavement Tie Devices	908.10	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Concrete Paver		SM Group 3 - Evaluation Before Shipment	SMPMD-19	
Corrugated Polyethylene Pipe	905	SM Group 2 - General Approval with Certification	SMPMD-17	Buy America Applicable
Corrugated Polyethylene Pipe Elbow	905	SM Group 2 - General Approval with Certification	SMPMD-17	Buy America Applicable

Material Quality Assurance Processes

Material Listing for Structural Materials

Material (Source Level)	Specification	Process Category (Design Level)	Page Number	Material Comment
Cured-in-Place Pipe Lining (CIPP)	Special Provisions	SM Group 2 - General Approval with Certification	SMPMD-17	Buy America Applicable
Dowel Bar Sleeves	908.04	SM Group 2 - General Approval with Certification	SMPMD-17	Buy America Applicable
Drainage Trough Assembly	909.1	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Ductile Iron Pipe	Special Provisions	SM Group 2 - General Approval with Certification	SMPMD-17	Buy America Applicable
DWS Type I - Detectable Warning Surface	925	SM Group 4 - Detectable Warning Surfaces	SMPMD-22	Buy America Applicable
DWS Type IIA - Detectable Warning Surface	925	SM Group 4 - Detectable Warning Surfaces	SMPMD-22	Buy America Applicable
DWS Type IIB - Detectable Warning Surface	925	SM Group 4 - Detectable Warning Surfaces	SMPMD-22	Buy America Applicable
DWS Type III - ADA Brick Paver	925	SM Group 3 - Evaluation Before Shipment	SMPMD-19	
DWS Type IV - Detectable Warning Surface	925	SM Group 4 - Detectable Warning Surfaces	SMPMD-22	Buy America Applicable
Elastomeric Closed Cell Neoprene Sponge	911.10	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Elastomeric Inserts	911.04	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Epoxy & Polyester Coating Application for Metals	917.02, 917.03	SM Group 9 - Qualified Facilities, Not Sourced	SMPMD-30	
Epoxy Powder Coating	917.02	SM Group 9 - Qualified Facilities, Not Sourced	SMPMD-30	
Expansion Joints in Structures, Complex/Finger	460	SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable
Expansion Joints in Structures, Simple	460	SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable
Fiberglass Catch Basin		SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Fiberglass Scuppers	921.11	SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable
Galvanized Steel Beam Sign Posts	802	SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable
Galvanizing Application for Metals	465	SM Group 9 - Qualified Facilities, Not Sourced	SMPMD-30	
Galvanizing Material		SM Group 9 - Qualified Facilities, Not Sourced	SMPMD-30	
General Epoxy Adhesive	921.04	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable

Material Quality Assurance Processes

Material Listing for Structural Materials

Material (Source Level)	Specification	Process Category (Design Level)	Page Number	Material Comment
General Use Bolts, Nuts and Washers	909.06	SM Group 2 - General Approval with Certification	SMPMD-17	Buy America Applicable
Gray Iron Casting (Scupper, Drain Grate, Inlet)	909.04	SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable
HDPE	905	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
High Strength Bolts, Nuts and Washers	909.07	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Certification requires test data. Buy America Applicable
Hollow Concrete Masonry Block	903.04	SM Group 3 - Evaluation Before Shipment	SMPMD-19	
HP Pile	907.03	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Lighting Structures		SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable
Loop Detector Sealer	911.06	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Manhole Brick	903.02	SM Group 3 - Evaluation Before Shipment	SMPMD-19	
Metal Hand Box and Components		SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Metal Pipe	905	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Metal Railing, Bridge Railing	461	SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable
Metal Structures, Bridge Steel	430	SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable
Metal Traffic Barrier, Certified Installer	605	SM Group 6 - Qualified Facilities, Limited Review	SMPMD-25	Buy America Applicable
Metal Traffic Barrier, Manufacturer	605	SM Group 9 - Qualified Facilities, Not Sourced	SMPMD-30	
Micro Piles	907.03, Special Provisions	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Misc. Metal Materials	909	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Misc. Metal Poles and Posts	909.02	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Misc. Preformed Joint Material	911.03	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
MSE Reinforcing Strips	Special Provisions	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Neoprene Bridge and Roadway Seals	911.05	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable

Material Quality Assurance Processes

Material Listing for Structural Materials

Material (Source Level)	Specification	Process Category (Design Level)	Page Number	Material Comment
Neoprene Drainage Trough	911.11.01	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Noise Barriers, Steel Post	455	SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable
Ornamental Fencing	Special Provisions	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Ornamental Lighting Pole	Special Provisions	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Overhead Sign Structures	803	SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable
Pile Jacket	418.02.01	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Pile Tip	410.03.05	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Pipe Pile, Steel	410	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Polyester Powder Coating, Material	917.03	SM Group 9 - Qualified Facilities, Not Sourced	SMPMD-30	
Polyvinyl Chloride (PVC) Pipe and Accessories	905	SM Group 1 - General Approval	SMPMD-16	PE to confirm UL Stamp. Buy America Applicable
Polyvinyl Chloride (PVC) Profile Wall Pipe	905	SM Group 1 - General Approval	SMPMD-16	PE to confirm UL Stamp. Buy America Applicable
Pourable Silicon Joint Sealer for Bridges		SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Preformed Fabric Drainage Trough	911.11.02	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Pre-Formed Fabric Pads	910.02.03	SM Group 7 - Qualified Facilities, Cert Review	SMPMD-26	
Sewer Brick	903.01	SM Group 3 - Evaluation Before Shipment	SMPMD-19	
Sheet Pile	907.04	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Signal Structures		SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable
Silicone Joint Sealer / Crack Filler	911.01.01	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Solid Concrete Masonry Block	903.05	SM Group 3 - Evaluation Before Shipment	SMPMD-19	
Specialty Metal Products	Special Provisions	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Stay-in-Place Form	909.11	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Certification requires test data. Buy America Applicable
Steel Frame and Cover	909.04	SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable

Material Quality Assurance Processes

Material Listing for Structural Materials

Material (Source Level)	Specification	Process Category (Design Level)	Page Number	Material Comment
Steel Prestressing/Post Tensioning Strand	908.11	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Steel Reinforcing Bars, Fabricated	908	SM Group 7 - Qualified Facilities, Cert Review	SMPMD-26	Buy America Applicable
Steel Reinforcing, Not Fabricated	908	SM Group 9 - Qualified Facilities, Not Sourced	SMPMD-30	
Steel Span Wire	950.09	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Steel Stud Shear Developers	909.05	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Used when studs are welded at the jobsite. Related to specific category code numbers. Buy America Applicable
Steel Wire Reinforcement Fabric, Welded	908.05	SM Group 8 - Qualified Facilities, Production Insp	SMPMD-28	Buy America Applicable
Structural Steel Liquid Coating, Application	465	SM Group 9 - Qualified Facilities, Not Sourced	SMPMD-30	
Structural Steel Liquid Coating, Manufacturer	912.05	SM Group 7 - Qualified Facilities, Cert Review	SMPMD-26	Buy America Applicable
Structural Timber and Lumber	921.05	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Super Silt Fencing Structure	914.01.01	SM Group 1 - General Approval	SMPMD-16	
Threaded Rod Coupler		SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Tie Wires	914.02	SM Group 2 - General Approval with Certification	SMPMD-17	Buy America Applicable
Tubular Steel Anchor Base		SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Tubular Steel Sign Post		SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Waterproofing Sheeting	913.04	SM Group 2 - General Approval with Certification	SMPMD-17	Buy America Applicable
Wire for Gabions / Baskets	906.01	SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable
Wood for Misc. Use		SM Group 1 - General Approval	SMPMD-16	Buy America Applicable
Wood Sign Supports		SM Group 3 - Evaluation Before Shipment	SMPMD-19	Buy America Applicable

Material Quality Assurance Processes

SM Group 1 - General Approval

Structural Materials and Pavement Markings Division

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Source Level Materials	Specification	Comments
Polyvinyl Chloride (PVC) Pipe and Accessories	905	PE to confirm UL Stamp. Buy America Applicable
Polyvinyl Chloride (PVC) Profile Wall Pipe	905	PE to confirm UL Stamp. Buy America Applicable
Super Silt Fencing Structure	914.01.01	
Wood for Misc. Use		Buy America Applicable

Plant or Product Qualification

Review of Misc Production Location

Limited Producer Check

General review of producer information. No production qualification required.

Production facility data maintained to track the material supply chain.

Address and low level information is maintained to provide data of facilities that produce materials in this category. Facilities that produce material in this category will be given a status of "Project Specific Review Required."

1 per 1 Prior to Source Request

Source Approval

Source Submission

Source of Supply Submittal

A name and address of the material sources of supply shall be sent to MMD for review. The producer is the organization that creates the material, the supplier is the one that delivers it to the project.

Delegation of Source of Supply Request is not required.

Source of Supply Processing

1 per 1 Prior to Usage on Project

Project Construction

Material Verification at Project Site, Structural Materials

Material Verification

This product may be required to be Buy America compliant under the Infrastructure Investment and Jobs Act (IIJA) / Bipartisan Infrastructure Law (BIL). A statement of compliance with Buy America from the manufacturer/producer must be included with every delivery to the project and must identify where the material was manufactured/produced.

On arrival at the project site the Project Engineer shall ensure the material is from the correct source and is fit for usage.

Project Engineer to submit Form 14 to the Materials Management Division confirming the material and its placement are acceptable and conform to specifications.

1 per 1 Delivery to Project

Material Quality Assurance Processes

SM Group 2 - General Approval with Certification

Structural Materials and Pavement Markings Division

QA / Frequency Guide, Source Level Material Listing Page 1 of 2

Source Level Materials	Specification	Comments
Adjustment Ring	909.02	Buy America Applicable
All Purpose Bonding Agent		Buy America Applicable
Asphalt Saturated Fabric	913.03	
Bituminous Fiber Filler	911.02	
Corrugated Polyethylene Pipe	905	Buy America Applicable
Corrugated Polyethylene Pipe Elbow	905	Buy America Applicable
Cured-in-Place Pipe Lining (CIPP)	Special Provisions	Buy America Applicable
Dowel Bar Sleeves	908.04	Buy America Applicable
Ductile Iron Pipe	Special Provisions	Buy America Applicable
General Use Bolts, Nuts and Washers	909.06	Buy America Applicable
Tie Wires	914.02	Buy America Applicable
Waterproofing Sheetting	913.04	Buy America Applicable

Plant or Product Qualification

Review of Misc Production Location

Limited Producer Check

General review of producer information. No production qualification required.

Production facility data maintained to track the material supply chain.

Address and low level information is maintained to provide data of facilities that produce materials in this category. Facilities that produce material in this category will be given a status of "Project Specific Review Required."

1 per 1 Prior to Source Request

Source Approval

Source Submission

Source of Supply Submittal

A name and address of the material sources of supply shall be sent to MMD for review. The producer is the organization that creates the material, the supplier is the one that delivers it to the project.

Delegation of Source of Supply Request is not required.

Source of Supply Processing

1 per 1 Prior to Usage on Project

Project Construction

Material Verification at Project Site, Structural Materials

Material Verification

This product may be required to be Buy America compliant under the Infrastructure Investment and Jobs Act (IIJA) / Bipartisan Infrastructure Law (BIL). A statement of compliance with Buy America from the manufacturer/producer must be included with every delivery to the project and must identify where the material was manufactured/produced.

On arrival at the project site the Project Engineer shall ensure the material is from the correct source and is fit for usage.

Material Quality Assurance Processes

SM Group 2 - General Approval with Certification

Structural Materials and Pavement Markings Division

QA / Frequency Guide, Source Level Material Listing Page 2 of 2

Project Engineer to collect manufacturer's certification (TC 1.03 w/o test data) indicating the specification to which the material conforms. Submit certification with Form 14 Stamp to the Materials Management Division for clearance.

1 per 1 Delivery to Project

Project Engineer to collect manufacturer's certification (TC 1.03 with test data) indicating the specification to which the material conforms. Submit certification with Form 14 Stamp to the Materials Management Division for clearance.

Applicable for materials that require certifications with test data (See material comments).

1 per 1 Delivery to Project

Material Quality Assurance Processes

SM Group 3 - Evaluation Before Shipment

Structural Materials and Pavement Markings Division

[QA / Frequency Guide, Source Level Material Listing](#) Page 1 of 3

Source Level Materials	Specification	Comments
Applied Fiberglass and Epoxy Pile Wrap		Buy America Applicable
Brick Paver		
Building Brick	903.03	
Chain Link Fencing	914.01	Buy America Applicable
Concrete Pavement Tie Devices	908.10	Buy America Applicable
Concrete Paver		
Drainage Trough Assembly	909.1	Buy America Applicable
DWS Type III - ADA Brick Paver	925	
Elastomeric Closed Cell Neoprene Sponge	911.10	Buy America Applicable
Elastomeric Inserts	911.04	Buy America Applicable
Fiberglass Catch Basin		Buy America Applicable
General Epoxy Adhesive	921.04	Buy America Applicable
HDPE	905	Buy America Applicable
High Strength Bolts, Nuts and Washers	909.07	Certification requires test data. Buy America Applicable
Hollow Concrete Masonry Block	903.04	
HP Pile	907.03	Buy America Applicable
Loop Detector Sealer	911.06	Buy America Applicable
Manhole Brick	903.02	
Metal Hand Box and Components		Buy America Applicable
Metal Pipe	905	Buy America Applicable
Micro Piles	907.03, Special Provisions	Buy America Applicable
Misc. Metal Materials	909	Buy America Applicable
Misc. Metal Poles and Posts	909.02	Buy America Applicable
Misc. Preformed Joint Material	911.03	Buy America Applicable
MSE Reinforcing Strips	Special Provisions	Buy America Applicable
Neoprene Bridge and Roadway Seals	911.05	Buy America Applicable
Neoprene Drainage Trough	911.11.01	Buy America Applicable
Ornamental Fencing	Special Provisions	Buy America Applicable
Ornamental Lighting Pole	Special Provisions	Buy America Applicable
Pile Jacket	418.02.01	Buy America Applicable
Pile Tip	410.03.05	Buy America Applicable
Pipe Pile, Steel	410	Buy America Applicable
Pourable Silicon Joint Sealer for Bridges		Buy America Applicable

Material Quality Assurance Processes

SM Group 3 - Evaluation Before Shipment

Structural Materials and Pavement Markings Division

QA / Frequency Guide, Source Level Material Listing Page 2 of 3

Preformed Fabric Drainage Trough	911.11.02	Buy America Applicable
Sewer Brick	903.01	
Sheet Pile	907.04	Buy America Applicable
Silicone Joint Sealer / Crack Filler	911.01.01	Buy America Applicable
Solid Concrete Masonry Block	903.05	
Specialty Metal Products	Special Provisions	Buy America Applicable
Stay-in-Place Form	909.11	Certification requires test data. Buy America Applicable
Steel Prestressing/Post Tensioning Strand	908.11	Buy America Applicable
Steel Span Wire	950.09	Buy America Applicable
Steel Stud Shear Developers	909.05	Used when studs are welded at the jobsite. Related to specific category code numbers. Buy America Applicable
Structural Timber and Lumber	921.05	Buy America Applicable
Threaded Rod Coupler		Buy America Applicable
Tubular Steel Anchor Base		Buy America Applicable
Tubular Steel Sign Post		Buy America Applicable
Wire for Gabions / Baskets	906.01	Buy America Applicable
Wood Sign Supports		Buy America Applicable

Plant or Product Qualification

Review of Misc Production Location

Limited Producer Check

General review of producer information. No production qualification required.

Production facility data maintained to track the material supply chain.

Address and low level information is maintained to provide data of facilities that produce materials in this category. Facilities that produce material in this category will be given a status of "Project Specific Review Required."

1 per 1 Prior to Source Request

Source Approval

Source Submission

Source of Supply Submittal

A name and address of the material sources of supply shall be sent to MMD for review. The producer is the organization that creates the material, the supplier is the one that delivers it to the project.

Delegation of Source of Supply Request may be required to confirm the material selection and request input on the evaluation criteria.

Source of Supply Processing

1 per 1 Prior to Usage on Project

Material Production

Material Quality Assurance Processes

SM Group 3 - Evaluation Before Shipment

Structural Materials and Pavement Markings Division

QA / Frequency Guide, Source Level Material Listing Page 3 of 3

OMT approval of material for shipment, Structural Materials

Material Certification for Project Usage

Submit Material Certification (TC 1.03 w/ Batch Specific Test Data) to metals@mdot.maryland.gov for review prior to delivery. If acceptable the document will be stamped by OMT and returned to the supplier to accompany the material to the project site.

1 per 1 Prior to Usage on Project

The Structural Materials team or an Authorized Representative will inspect the material, all relevant certifications, and may take material samples at the production facility. Please contact metals@mdot.maryland.gov to schedule an inspection.

Only to be utilized with input from the structural materials team. Typically used for metal materials or structural timber.

1 per 1 Prior to Usage on Project

Submit Material Certification (TC 1.03 w/o test data) for timber preservatives to metals@mdot.maryland.gov. If acceptable the document will be stamped by OMT and returned to the source of supply to accompany the material to the project site.

Only applicable for non-structural timber materials

1 per 1 Prior to Usage on Project

Submit Sample, Form 88 and Material Certification (TC 1.03 w/o test data) for clay brick materials to OMT for evaluation. Form 88 will be returned to PE. Alternate sampling may be requested by contacting metals@mdot.maryland.gov 3 weeks prior to delivery.

Only applicable for Clay Brick

10 Bricks

Requirement waived if the quantity is less than 200 EA per day or 1000 EA per project.

1 per 50,000 Each

Submit Sample, Form 88 and Material Certification (TC 1.03 w/o test data) for concrete block to OMT for evaluation. Form 88 will be returned to PE. Alternate sampling may be requested by contacting metals@mdot.maryland.gov 3 weeks prior to delivery.

Only applicable for Masonry Concrete Block

6 Blocks

Requirement waived if the quantity is less than 200 EA per day or 1000 EA per project.

1 per 6,000 Each

Project Construction

Material Verification at Project Site, Structural Materials

Material Verification

This product may be required to be Buy America compliant under the Infrastructure Investment and Jobs Act (IIJA) / Bipartisan Infrastructure Law (BIL). A statement of compliance with Buy America from the manufacturer/producer must be included with every delivery to the project and must identify where the material was manufactured/produced.

On arrival at the project site the Project Engineer shall ensure the material is from the correct source and is fit for usage.

Project Engineer to collect OMT stamped documentation indicating review and approval of material. Submit document to the Materials Management Division for materials clearance.

1 per 1 Delivery to Project

Material Quality Assurance Processes

SM Group 4 - Detectable Warning Surfaces

Structural Materials and Pavement Markings Division

QA / Frequency Guide, Source Level Material Listing Page 1 of 1

Source Level Materials	Specification	Comments
DWS Type I - Detectable Warning Surface	925	Buy America Applicable
DWS Type IIA - Detectable Warning Surface	925	Buy America Applicable
DWS Type IIB - Detectable Warning Surface	925	Buy America Applicable
DWS Type IV - Detectable Warning Surface	925	Buy America Applicable

Plant or Product Qualification

Review of Producer (SM)

Facility Qualification

Production facility data maintained to track the material supply chain and provide a basis for qualified products.

Address and low level information is maintained to provide data of facilities that produce this category's material types. Facilities that produce materials in this category will be given a status of "Product Qualification Required".

1 per 1 Prior to Source Request

Review of Product (SM):

Product Qualification

Qualification of Material Product for use on State Projects.

New products for this category will be evaluated through the MPEL system. Navigate to "<http://www.roads.maryland.gov/index.aspx?PageID=600>" for the current qualified list and detailed procedures. Navigate to "<http://apps.roads.maryland.gov/MPEL/>" for new submissions.

1 per 1 Prior to Source Request

Source Approval

Source Submission

Source of Supply Submittal

A name and address of the material sources of supply shall be sent to MMD for review. The producer is the organization that creates the material, the supplier is the one that delivers it to the project.

Source of Supply Processing

The products of materials for this group must be qualified for state use prior to the approval of the Source of Supply request. If the contractor requests a product that is not on the qualified list he will be provided the link to the MPEL system (<http://apps.roads.maryland.gov/MPEL/>). qualification procedures, anticipated review duration, and be advised that the source approval is contingent on the product qualification.

1 per 1 Prior to Usage on Project

Project Construction

Material Verification at Project Site, Structural Materials

Material Verification

This product may be required to be Buy America compliant under the Infrastructure Investment and Jobs Act (IIJA) / Bipartisan Infrastructure Law (BIL). A statement of compliance with Buy America from the manufacturer/producer must be included with every delivery to the project and must identify where the material was manufactured/produced.

On arrival at the project site the Project Engineer shall ensure the material is from the correct source and is fit for usage.

Project Engineer to collect certifications (TC 1.03 w/o test data) and submit certs to OMT for clearance.

1 per 1 Delivery to Project

Material Quality Assurance Processes

SM Group 5 - Producer and Batch Data Tracked

Structural Materials and Pavement Markings Division

QA / Frequency Guide, Source Level Material Listing Page 1 of 2

Source Level Materials	Specification	Comments
Anchor Bolts, Fabricated Systems	909.08	Buy America Applicable

Plant or Product Qualification

Review of Misc Production Location

Limited Producer Check

General review of producer information. No production qualification required.

Production facility data maintained to track the material supply chain.

Address and low level information is maintained to provide data of facilities that produce materials in this category. Facilities that produce material in this category will be given a status of "Project Specific Review Required."

1 per 1 Prior to Source Request

Review of Product (SM):

Product Qualification

Maintain data on each heat or batch of product used on State projects.

Each heat or batch of produced material is considered its own product. Data will be maintained for tracking purposes but does not need to be referenced on the Source of Supply request. If the testing is acceptable OMT will stamp the material certification and provide it to the producer. A copy of this certification must accompany the shipment of material to the project site. The approved certification may be used on for any state project that the producer has been approved for until the related heat or batch has been exhausted.

1 per 1 Batch, Lot or Heat

Source Approval

Source Submission

Source of Supply Submittal

A name and address of the material sources of supply shall be sent to MMD for review. The producer is the organization that creates the material, the supplier is the one that delivers it to the project.

Delegation of Source of Supply Request required to confirm producer and initiate data tracking procedures.

Source of Supply Processing

1 per 1 Prior to Usage on Project

Material Production

OMT approval of material for shipment, Structural Materials

Material Certification for Project Usage

Batch/Heat of Material must be approved by OMT. The producer to submit Material Certification (TC 1.03 w/ test data) and Sample to Structural Materials for evaluation. Contact metals@mdot.maryland.gov for further information.

Each batch/heat of material must be approved by the Structural Materials team. If the batch/heat of material that will be shipped has not been approved by OMT (for this or any other project) the producer needs to submit a sample and certification related to the batch/heat for evaluation.

1 per 1 Batch, Lot or Heat

Project Construction

Material Quality Assurance Processes

SM Group 5 - Producer and Batch Data Tracked

Structural Materials and Pavement Markings Division

[QA / Frequency Guide, Source Level Material Listing](#) Page 2 of 2

Material Verification at Project Site, Structural Materials

Material Verification

This product may be required to be Buy America compliant under the Infrastructure Investment and Jobs Act (IIJA) / Bipartisan Infrastructure Law (BIL). A statement of compliance with Buy America from the manufacturer/producer must be included with every delivery to the project and must identify where the material was manufactured/produced.

On arrival at the project site the Project Engineer shall ensure the material is from the correct source and is fit for usage.

Project Engineer to collect OMT stamped Material Certification (TC 1.03 w/ test data) and submit to the Materials Management Division for materials clearance.

1 per 1

Delivery to Project

Material Quality Assurance Processes

SM Group 6 - Qualified Facilities, Limited Review

Structural Materials and Pavement Markings Division

QA / Frequency Guide, Source Level Material Listing Page 1 of 1

Source Level Materials	Specification	Comments
Metal Traffic Barrier, Certified Installer	605	Buy America Applicable

Plant or Product Qualification

Review of Producer (SM)

Facility Qualification

Facility to be qualified for state projects (and re-qualified annually) and issued an OMT certification stamp before it is sourced to a project.

The material producer (in some cases supplier) shall be reviewed by the Structural Material Division prior to the producer being named as a source of supply. Facilities that have not produced for an MD project in one year will need to be re-audited.

1 per 1 Prior to Source Request
1 per 12 Months

Source Approval

Source Submission

Source of Supply Submittal

A name and address of the material sources of supply shall be sent to MMD for review. The producer is the organization that creates the material, the supplier is the one that delivers it to the project.

Delegation of Source of Supply Request required when the producer's status is "Plant Evaluation Required".

Source of Supply Processing

The material producer must be "Qualified for State Projects" and associated to the Source of Supply request properly for the request to be approved. If the plant status is "Plant Evaluation Required" the source may be approved, however the Structural Materials team will need to perform an evaluation before material is fabricated.

1 per 1 Prior to Usage on Project

Material Production

Quality Assurance of Structural Material production facilities.

Material Certification for Project Usage

Facility re-qualification required, Structural Materials or an Authorized Representative to conduct facility evaluation and reissue facility certification. Please contact metals@mdot.maryland.gov to schedule an evaluation.

Option to be selected only when frequency met for re-evaluation. Select when the status of producer is "Plant Evaluation Required", otherwise indicate that the task is not applicable

1 per 12 Months

Project Construction

Material Verification at Project Site, Structural Materials

Material Verification

This product may be required to be Buy America compliant under the Infrastructure Investment and Jobs Act (IIJA) / Bipartisan Infrastructure Law (BIL). A statement of compliance with Buy America from the manufacturer/producer must be included with every delivery to the project and must identify where the material was manufactured/produced.

On arrival at the project site the Project Engineer shall ensure the material is from the correct source and is fit for usage.

Project Engineer to collect the stamped supplier's Certification of Compliance listing the materials shipped and submit to the Materials Management Division for materials clearance.

1 per 1 Delivery to Project

Material Quality Assurance Processes

SM Group 7 - Qualified Facilities, Cert Review

Structural Materials and Pavement Markings Division

QA / Frequency Guide, Source Level Material Listing Page 1 of 2

Source Level Materials	Specification	Comments
Concrete Epoxy Coating	917.01	Buy America Applicable
Pre-Formed Fabric Pads	910.02.03	
Steel Reinforcing Bars, Fabricated	908	Buy America Applicable
Structural Steel Liquid Coating, Manufacturer	912.05	Buy America Applicable

Plant or Product Qualification

Review of Producer (SM)

Facility Qualification

Facility to be qualified for state projects before it is sourced.

The material producer (in some cases supplier) shall be reviewed by the Structural Material Division prior to the producer being named as a source of supply. Facilities that have not produced for an MD project in one year will need to be re-qualified.

1 per 12 Months

Source Approval

Source Submission

Source of Supply Submittal

A name and address of the material sources of supply shall be sent to MMD for review. The producer is the organization that creates the material, the supplier is the one that delivers it to the project.

Delegation of Source of Supply Request required when the producer's status is "Plant Evaluation Required".

Source of Supply Processing

The material producer must be "Qualified for State Projects" and associated to the Source of Supply request properly for the request to be approved. If the plant status is "Plant Evaluation Required" the source may be approved, however the Structural Materials team will need to perform an evaluation before the material is shipped.

1 per 1 Prior to Usage on Project

Material Production

Quality Assurance of Structural Material production facilities.

Material Certification for Project Usage

Facility re-qualification required. Structural Materials or an Authorized Representative to conduct facility evaluation prior to material approval. Contact metals@mdot.maryland.gov to determine inspection schedule.

Option to be selected only when frequency met for re-evaluation. Select when the status of producer is "Plant Evaluation Required", otherwise indicate that the task is not applicable.

1 per 12 Months

OMT approval of material for shipment, Structural Materials

Material Certification for Project Usage

Submit Material Certification (TC 1.03 w/batch test data). All Material Test Result (MTR's) for steel and iron products must include a statement that material was produced (Melted and Manufactured in the United States) and sent to metals@mdot.maryland.gov for review and approval. If acceptable, the documents will be stamped and returned to the vendor to accompany the delivery.

1 per 1 Prior to Usage on Project

Material Quality Assurance Processes

SM Group 7 - Qualified Facilities, Cert Review

Structural Materials and Pavement Markings Division

QA / Frequency Guide, Source Level Material Listing Page 2 of 2

Submit Material Certification (TC 1.03 w/ test data) and a sample to Structural Materials, contact metals@mdot.maryland.gov. If acceptable the document will be stamped by OMT and returned to the source of supply to accompany the delivery.

Option applicable for Pre-Formed Fabric Pads

1 per 1 Prior to Usage on Project

Project Construction

Material Verification at Project Site, Structural Materials

Material Verification

This product may be required to be Buy America compliant under the Infrastructure Investment and Jobs Act (IIJA) / Bipartisan Infrastructure Law (BIL). A statement of compliance with Buy America from the manufacturer/producer must be included with every delivery to the project and must identify where the material was manufactured/produced.

On arrival at the project site the Project Engineer shall ensure the material is from the correct source and is fit for usage.

Project Engineer to collect OMT stamped documentation indicating review and approval of material. Submit document to the Materials Management Division for materials clearance.

1 per 1 Delivery to Project

Material Quality Assurance Processes

SM Group 8 - Qualified Facilities, Production Insp

Structural Materials and Pavement Markings Division

QA / Frequency Guide, Source Level Material Listing Page 1 of 2

Source Level Materials	Specification	Comments
Aluminum Signs	813, 950.08.01	Buy America Applicable
Bearings, Elastomeric Structural	910.02.01	Buy America Applicable
Bearings, Structural	910.01	Buy America Applicable
Bridge Mounted Sign Supports	433	Buy America Applicable
Expansion Joints in Structures, Complex/Finger	460	Buy America Applicable
Expansion Joints in Structures, Simple	460	Buy America Applicable
Fiberglass Scuppers	921.11	Buy America Applicable
Galvanized Steel Beam Sign Posts	802	Buy America Applicable
Gray Iron Casting (Scupper, Drain Grate, Inlet)	909.04	Buy America Applicable
Lighting Structures		Buy America Applicable
Metal Railing, Bridge Railing	461	Buy America Applicable
Metal Structures, Bridge Steel	430	Buy America Applicable
Noise Barriers, Steel Post	455	Buy America Applicable
Overhead Sign Structures	803	Buy America Applicable
Signal Structures		Buy America Applicable
Steel Frame and Cover	909.04	Buy America Applicable
Steel Wire Reinforcement Fabric, Welded	908.05	Buy America Applicable

Plant or Product Qualification

Review of Producer (SM)

Facility Qualification

Facility to be qualified for state projects before it is sourced.

The material producer (in some cases supplier) shall be reviewed by the Structural Material Division prior to the producer being named as a source of supply. Facilities that have not produced for an MD project in one year will need to be re-qualified.

1 per 1 Prior to Source Request

Source Approval

Source Submission

Source of Supply Submittal

A name and address of the material sources of supply shall be sent to MMD for review. The producer is the organization that creates the material, the supplier is the one that delivers it to the project.

Delegation of Source of Supply Request required for all submissions.

Source of Supply Processing

The material producer must be Qualified for State Projects and associated to the Source of Supply request properly for the request to be approved.

1 per 1 Prior to Usage on Project

Material Production

Material Quality Assurance Processes

SM Group 8 - Qualified Facilities, Production Insp

Structural Materials and Pavement Markings Division

QA / Frequency Guide, Source Level Material Listing Page 2 of 2

Quality Assurance of Structural Material production facilities.

Material Certification for Project Usage

Facility re-qualification required. Structural Materials to conduct facility evaluation and reissue facility certification.

Option to be selected only when frequency met for re-evaluation. Select when the status of producer is "Plant Evaluation Required", otherwise that the task is not applicable.

1 per 12 Months

OMT approval of material for shipment, Structural Materials

Material Certification for Project Usage

When applicable, all galvanized or painted materials must be inspected in the final coated condition.

The Metals team or an Authorized Representative will inspect the fabrication, all relevant certifications, and may take material samples at the production facility. Please contact metals@mdot.maryland.gov to determine inspection schedule.

This option is utilized for all safety critical materials and for other materials when re-qualification of the facility is required.

1 per 1 Prior to Usage on Project

Project Construction

Material Verification at Project Site, Structural Materials

Material Verification

This product may be required to be Buy America compliant under the Infrastructure Investment and Jobs Act (IIJA) / Bipartisan Infrastructure Law (BIL). A statement of compliance with Buy America from the manufacturer/producer must be included with every delivery to the project and must identify where the material was manufactured/produced.

On arrival at the project site the Project Engineer shall ensure the material is from the correct source and is fit for usage.

Project Engineer to collect OMT stamped documentation indicating review and approval of material. Submit document to the Materials Management Division for materials clearance.

1 per 1 Delivery to Project

Material Quality Assurance Processes

SM Group 9 - Qualified Facilities, Not Sourced

Structural Materials and Pavement Markings Division

QA / Frequency Guide, Source Level Material Listing Page 1 of 1

Source Level Materials	Specification	Comments
Epoxy & Polyester Coating Application for Metals	917.02, 917.03	
Epoxy Powder Coating	917.02	
Galvanizing Application for Metals	465	
Galvanizing Material		
Metal Traffic Barrier, Manufacturer	605	
Polyester Powder Coating, Material	917.03	
Steel Reinforcing, Not Fabricated	908	
Structural Steel Liquid Coating, Application	465	
08" Offset Block		
10" Offset Block		
12" Offset Block		

Plant or Product Qualification

Review of Producer (SM)

Facility Qualification

Facility to be qualified for state projects (and re-qualified annually).

Facilities that supply materials in this category must be qualified before the material is used on a state project. Typically are utilized by a separate supplier or fabricator (qualified independently) before shipment to the project site. Therefore these facilities do not need to be specifically sourced to a project.

1 per 12 Months