

MARYLAND STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC AND SAFETY
7491 Connelley Drive
Hanover, MD 21076

PROCEDURES FOR THE QUALIFICATION OF ARROW PANELS

The Maryland State Highway Administration (SHA) maintains a Qualified Products List (QPL) which includes Arrow Panels. Arrow Panels shall conform to **Section 104.07** of SHA's [Standard Specifications for Construction and Materials Manual](#) and the applicable standards from the [Book of Standards for Highway and Incidental Structures](#).

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select VENDOR REGISTRATION to begin the process.

Arrow Panels will require field evaluation testing as part of the evaluation process. Manufacturers/Vendors must provide free samples for the evaluation process.

All products approved are required to continue to meet the specifications mentioned above. SHA must be informed immediately of any changes in the composition of the materials/products. After SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

Materials/Products representing revised formulations/standards of currently approved Qualified Products will not be accepted for testing within six (6) months of the most recent evaluation, unless requested by SHA.

Materials/Products evaluated and not accepted, are not eligible for resubmission within six (6) months of the most recent examinations, unless requested by the SHA.

Producers are required to recertify their products every 5 years in order to remain on SHA's QPL beginning January 2020. Products approved within 36 months of the Recertification Date are exempt.

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PROCEDURES FOR THE QUALIFICATION OF BARRICADES FOR MOT

The Maryland State Highway Administration (SHA) maintains a Qualified Products List (QPL) which includes Barricades for Maintenance of Traffic. Barricades for Maintenance of Traffic shall conform to the following:

- Section [104.13](#) of SHA's Standard Specifications for Construction and Materials Manual
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- The Federal Highway Administration's Roadside Safety Hardware Safety Systems Memorandum
 - [FHWA RSHS Memorandum](#)

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select VENDOR REGISTRATION to begin the process.

Barricade evaluation requires National Cooperative Highway Research Program (NCHRP) Report 350 and /or Manual for Assessing Safety Hardware (MASH) recommended certification before acceptance. SHA reserves the right to perform field evaluations or testing as a part of the evaluation process.

EFFECTIVE IMMEDIATELY: All Barricades for Maintenance of Traffic must conform to the FHWA revised procedures dated [May 18, 2015](#). The letter is included in this document as a reference.

All products approved are required to continue to meet the specifications mentioned above. SHA must be informed immediately of any changes in the composition of the materials/products. After SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

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PROCEDURES FOR THE QUALIFICATION OF CONES FOR MOT

The Maryland State Highway Administration (SHA) maintains a Qualified Products List (QPL) which includes Cones for Maintenance of Traffic. Cones for Maintenance of Traffic shall conform to **Section 104.14** of SHA's [Standard Specifications for Construction and Materials Manual](#) and the applicable standards from the [Book of Standards for Highway and Incidental Structures](#).

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select VENDOR REGISTRATION to begin the process.

SHA reserves the right to perform field evaluations or testing as a part of the evaluation process.

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PROCEDURES FOR THE QUALIFICATION OF DRUMS FOR MOT

The Maryland State Highway Administration (SHA) maintains a Qualified Products List (QPL) which includes Drums for Maintenance of Traffic. Drums for Maintenance of Traffic shall conform to **Section 104.12** of SHA's [Standard Specifications for Construction and Materials Manual](#) and the applicable standards from the [Book of Standards for Highway and Incidental Structures](#).

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select VENDOR REGISTRATION to begin the process.

SHA reserves the right to perform field evaluations or testing as a part of the evaluation process.

All products approved are required to continue to meet the specifications mentioned above. SHA must be informed immediately of any changes in the composition of the product materials/products. After SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

Materials/Products representing revised formulations/standards of currently approved Qualified Products will not be accepted for testing within six (6) months of the most recent evaluation, unless requested by SHA.

Materials/Products evaluated and not accepted, are not eligible for resubmission within six (6) months of the most recent examinations, unless requested by the SHA.

Producers are required to recertify their products every 5 years in order to remain on SHA's QPL beginning June 2020. Products approved within 36 months of the Recertification Date are exempt.

PROCEDURES FOR THE QUALIFICATION OF TEMPORARY TRAFFIC SIGNS AND PORTABLE SIGN SUPPORTS

The Maryland State Highway Administration (SHA) maintains a Qualified Products List (QPL) which includes Temporary Traffic Signs and Portable Sign Supports. Temporary Traffic Signs and Portable Sign Supports shall conform to the following:

- Section [104.08](#) of SHA's Standard Specifications for Construction and Materials Manual
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- The Federal Highway Administration's Roadside Safety Hardware Safety Systems Memorandum
 - [FHWA RSHS Memorandum](#)

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select VENDOR REGISTRATION to begin the process.

Temporary Traffic Sign and Portable Sign Support evaluation requires National Cooperative Highway Research Program (NCHRP) Report 350 and /or Manual for Assessing Safety Hardware (MASH) recommended certification before acceptance. SHA reserves the right to perform field evaluations or testing as a part of the evaluation process.

EFFECTIVE IMMEDIATELY: All Temporary Traffic Signs and Portable Sign Supports must conform to the FHWA revised procedures dated [May 18, 2015](#). The letter is included in this document as a reference.

All products approved are required to continue to meet the specifications mentioned above. SHA must be informed immediately of any changes in the composition of the materials/products. After SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

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**PROCEDURES FOR THE QUALIFICATION OF
PORTABLE TRAFFIC SIGNALS**

The Maryland State Highway Administration (SHA) maintains a Qualified Products List (QPL) which includes Portable Traffic Signals (PTS). PTS shall conform to **Section 104.30** of SHA's [Standard Specifications for Construction and Materials Manual](#) and the applicable standards from the [Book of Standards for Highway and Incidental Structures](#). PTS shall meet the compatibility requirements of the SHA Signal Shop.

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select VENDOR REGISTRATION to begin the process.

PTS will require field evaluation or testing as part of the evaluation process. Manufacturers/Vendors must provide free samples for the evaluation process.

All products approved are required to continue to meet the specifications mentioned above. SHA must be informed immediately of any changes in the composition of the materials/products. After SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

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Materials/Products evaluated and not accepted, are not eligible for resubmission within six (6) months of the most recent examinations, unless requested by the SHA.

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**PROCEDURES FOR THE QUALIFICATION OF
PORTABLE VARIABLE MESSAGE SIGNS**

The Maryland State Highway Administration (SHA) maintains a Qualified Products List (QPL) which includes Portable Variable Message Signs (PVMS). PVMS shall conform to **Section 104.19** of SHA's [Standard Specifications for Construction and Materials Manual](#) and the applicable standards from the [Book of Standards for Highway and Incidental Structures](#).

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select VENDOR REGISTRATION to begin the process.

PVMS will require field evaluation or testing as part of the evaluation process. Manufacturers/Vendors must provide free samples for the evaluation process.

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PROCEDURES FOR THE QUALIFICATION OF PROTECTION VEHICLE WITH TRUCK OR TRAILER-TRUCK MOUNTED ATTENUATOR

The Maryland State Highway Administration (SHA) maintains a Qualified Products List (QPL) which includes Protection Vehicles with Truck or Trailer-Truck Mounted Attenuators (TMA or TTMA). Protection Vehicle with TMA or TTMA shall conform to the following

- Section [104.23](#) of SHA's Standard Specifications for Construction and Materials Manual
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- The Federal Highway Administration's Roadside Safety Hardware Safety Systems Memorandum
 - [FHWA RSHS Memorandum](#)

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select VENDOR REGISTRATION to begin the process.

Protection Vehicle with TMA or TTMA evaluation requires National Cooperative Highway Research Program (NCHRP) Report 350 and /or Manual for Assessing Safety Hardware (MASH) recommended certification before acceptance. SHA reserves the right to perform field evaluations or testing as a part of the evaluation process.

EFFECTIVE IMMEDIATELY: All Protection Vehicle with TMA or TTMA must conform to the FHWA revised procedures dated [May 18, 2015](#). The letter is included in this document as a reference.

All products approved are required to continue to meet the specifications mentioned above. SHA must be informed immediately of any changes in the composition of the materials/products. After SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

Materials/Products representing revised formulations/standards of currently approved Qualified Products will not be accepted for testing within six (6) months of the most recent evaluation, unless requested by SHA.

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**PROCEDURES FOR THE QUALIFICATION OF
SPEED DISPLAY TRAILERS**

The Maryland State Highway Administration (SHA) maintains a Qualified Products List (QPL) which includes Speed Display Trailers (SDT). SDT shall conform to **Section 104.28** of SHA's [Standard Specifications for Construction and Materials Manual](#) and the applicable standards from the [Book of Standards for Highway and Incidental Structures](#).

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select VENDOR REGISTRATION to begin the process.

SDT will require field evaluation or testing as part of the evaluation process. Manufacturers/Vendors must provide free samples for the evaluation process.

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Materials/Products representing revised formulations/standards of currently approved Qualified Products will not be accepted for testing within six (6) months of the most recent evaluation, unless requested by SHA.

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PROCEDURES FOR THE QUALIFICATION OF TEMPORARY CONCRETE TRAFFIC BARRIER

The Maryland State Highway Administration (SHA) maintains a Qualified Products List (QPL) which includes Temporary Concrete Traffic Barriers. Temporary Concrete Traffic Barriers shall conform to the following:

- Section [104.04](#) of SHA's Standard Specifications for Construction and Materials Manual
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- The Federal Highway Administration's Roadside Safety Hardware Safety Systems Memorandum
 - [FHWA RSHS Memorandum](#)

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select VENDOR REGISTRATION to begin the process.

Temporary Concrete Traffic Barrier evaluation requires National Cooperative Highway Research Program (NCHRP) Report 350 and/or Manual for Assessing Safety Hardware (MASH) recommended certification before acceptance. SHA reserves the right to perform field evaluations or testing as a part of the evaluation process.

EFFECTIVE IMMEDIATELY: All Temporary Concrete Traffic Barriers must conform to the FHWA revised procedures dated [May 18, 2015](#). The letter is included in this document as a reference.

All products approved are required to continue to meet the specifications mentioned above. SHA must be informed immediately of any changes in the composition of the materials/products. After SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

Materials/Products representing revised formulations/standards of currently approved Qualified Products will not be accepted for testing within six (6) months of the most recent evaluation, unless requested by SHA.

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**PROCEDURES FOR THE QUALIFICATION OF TEMPORARY
CRASH CUSHION SAND FILLED PLASTIC BARRELS**

The Maryland State Highway Administration (SHA) maintains a Qualified Products List (QPL) which includes Temporary Crash Cushion Sand Filled Plastic Barrels. Temporary Crash Cushion Sand Filled Plastic Barrels shall conform to the following:

- Section [104.10](#) of SHA's Standard Specifications for Construction and Materials Manual
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- The Federal Highway Administration's Roadside Safety Hardware Safety Systems Memorandum
 - [FHWA RSHS Memorandum](#)

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select VENDOR REGISTRATION to begin the process.

Temporary Crash Cushion Sand Filled Plastic Barrels evaluation requires National Cooperative Highway Research Program (NCHRP) Report 350 and /or Manual for Assessing Safety Hardware (MASH) recommended certification before acceptance. SHA reserves the right to perform field evaluation or testing as a part of the evaluation process.

EFFECTIVE IMMEDIATELY: All Temporary Crash Cushion Sand Filled Plastic Barrels must conform to the FHWA revised procedures dated [May 18, 2015](#). The letter is included in this document as a reference.

All products approved are required to continue to meet the specifications mentioned above. SHA must be informed immediately of any changes in the composition of the materials/products. After SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

Materials/Products representing revised formulations/standards of currently approved Qualified Products will not be accepted for testing within six (6) months of the most recent evaluation, unless requested by SHA.

Materials/Products evaluated and not accepted, are not eligible for resubmission within six (6) months of the most recent examinations, unless requested by the SHA.

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**PROCEDURES FOR THE QUALIFICATION OF
TRUCK MOUNTED VARIABLE MESSAGE SIGNS**

The Maryland State Highway Administration (SHA) maintains a Qualified Products List (QPL) which includes Truck Mounted Variable Message Signs (TVMS). TVMS shall conform to **Section 104.29** of SHA's [Standard Specifications for Construction and Materials Manual](#) and the applicable standards from the [Book of Standards for Highway and Incidental Structures](#).

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select VENDOR REGISTRATION to begin the process.

TVMS will require field evaluation or testing as part of the evaluation process. Manufacturers/Vendors must provide free samples for the evaluation process.

All products approved are required to continue to meet the specifications mentioned above. SHA must be informed immediately of any changes in the composition of the materials/products. After SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

Materials/Products representing revised formulations/standards of currently approved Qualified Products will not be accepted for testing within six (6) months of the most recent evaluation, unless requested by SHA.

Materials/Products evaluated and not accepted, are not eligible for resubmission within six (6) months of the most recent examinations, unless requested by the SHA.

Producers are required to recertify their products every 5 years in order to remain on SHA's QPL beginning October 2020. Products approved within 36 months of the Recertification Date are exempt.

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PROCEDURES FOR THE QUALIFICATION OF TUBULAR MARKERS

The Maryland State Highway Administration (SHA) maintains a Qualified Products List (QPL) which includes Tubular Markers. Tubular Markers shall conform to the following:

- Section [104.06](#) of SHA's Standard Specifications for Construction and Materials Manual
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- The Federal Highway Administration's Roadside Safety Hardware Safety Systems Memorandum
 - [FHWA RSHS Memorandum](#)

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select VENDOR REGISTRATION to begin the process.

Tubular Marker evaluation requires vendor self certification for crashworthiness, before acceptance, as recommended by National Cooperative Highway Research Program (NCHRP) Report 350. SHA reserves the right to perform field evaluation or testing as a part of the evaluation process.

EFFECTIVE IMMEDIATELY: All Tubular Markers must conform to the FHWA revised procedures dated [May 18, 2015](#). The letter is included in this document as a reference.

All products approved are required to continue to meet the specifications mentioned above. SHA must be informed immediately of any changes in the composition of the materials/products. After SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

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PROCEDURES FOR THE QUALIFICATION OF WATER FILLED BARRIERS

The Maryland State Highway Administration (SHA) maintains a Qualified Products List (QPL) which includes Water Filled Barriers. Water Filled Barriers shall conform to the following:

- Section [100](#) Special Provision Specification for Construction and Materials
- The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
- The Federal Highway Administration's Roadside Safety Hardware Safety Systems Memorandum
 - [FHWA RSHS Memorandum](#)

If you are interested in having your product qualified, please visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and then select VENDOR REGISTRATION to begin the process.

Water Filled Barriers require National Cooperative Highway Research Program (NCHRP) Report 350 and /or Manual for Assessing Safety Hardware (MASH) recommended certification before acceptance. SHA reserves the right to perform field evaluations or testing as a part of the evaluation process.

EFFECTIVE IMMEDIATELY: All Water Filled Barriers must conform to the FHWA revised procedures dated [May 18, 2015](#). The letter is included in this document as a reference.

All products approved are required to continue to meet the specifications mentioned above. SHA must be informed immediately of any changes in the composition of the materials/products. After SHA has reviewed the changes, new sample(s) may be requested and submitted along with the aforementioned information.

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CATEGORY 100

PRELIMINARY

WATER FILLED BARRIER (WFB) FOR MAINTENANCE OF TRAFFIC

DESCRIPTION. This work shall consist of furnishing, placing, resetting, and removing WFBs for use at locations specified in the Contract Documents, or as directed by the Engineer.

MATERIALS.

Vertical Panels, Reflective
Barrier Markers, Warning Lights and
Water Filled Barrier

As approved by the Office
of Traffic and Safety

CONSTRUCTION. The Contractor shall maintain WFBs in alignment and in a like new condition acceptable to the Engineer.

Resetting WFBs shall consist of removing and relocating WFBs as directed by the Engineer.

Items such as reflective barrier markers, vertical panels (object markers), and warning lights shall be installed on the WFB as specified in the Contract Documents.

The WFB shall be tested and certified by FHWA, to conform to NCHRP 350, Test Level (TL) 3 for barriers. The WFB shall be assembled in conformance with the manufacture's instructions to conform to TL 3. All accessory kits necessary for the barrier to conform to TL 3 shall be provided.

Water to be used in the WFBs may be treated with anti-freeze. Water and anti-freeze solutions shall conform to the recommendations of the WFB manufacturer. Water shall not be drained onto open roadway at any time. Water treated with anti-freeze shall be pumped from the barrier and disposed of at a location that conforms to all applicable environmental regulations.

MEASUREMENT AND PAYMENT.

- (a) Water Filled Barrier will be measured and paid for at the Contract unit price per linear foot measured along the center line of the top of the barrier. The payment will be full compensation for furnishing, placing, maintaining, and removal from the project site as directed by the Engineer, water, anti-freeze, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.

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CATEGORY 100

PRELIMINARY

- (b) Reflective Barrier Markers, Vertical Panels, and Warning Lights will be measured and paid for at the Contract unit price per each. The payment will be full compensation for furnishing, placing, maintaining and removal from the project site as directed by the Engineer and for all materials, labor, equipment, tools, and incidentals necessary to complete the work.

- (c) Reset Water Filled Barrier will be measured and paid for at the Contract unit price per linear foot measured along the center line of the top of the barrier. The payment will be full compensation for removal from its original placement, transporting and resetting it in its new temporary location, applicable portions of (a) above, and for all material, labor, equipment, tools, and incidentals necessary to complete the work.