

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF MATERIALS TECHNOLOGY
7450 Traffic Drive, Building #4
Hanover, MD 21076

**PROCEDURE FOR THE QUALIFICATION OF PERMANENT
TRAFFIC BARRIER END TREATMENTS**

The Maryland Department of Transportation State Highway Administration (MDOT-SHA) maintains a Qualified Products List (QPL) which includes Permanent Traffic Barrier End Treatments. Permanent Traffic Barrier End Treatments shall conform to the following:

1. Section [606](#) of MDOT-SHA's Standard Specification for Construction and Materials.
2. [Guidelines for Traffic Barrier Placement and End Treatment Design](#)
3. [Addendum to Guidelines for Traffic Barrier Placement and End Treatment Design](#)
4. Applicable standards from the [Book of Standards for Highway and Incidental Structures](#)

If you are interested in having your Materials/Devices/Products qualified, visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and select VENDOR REGISTRATION to begin.

Permanent Traffic Barrier End Treatment evaluations require Manual for Assessing Safety Hardware (MASH 2016) eligibility acceptance documentation from the Federal Highway Administration (FHWA). The FHWA Eligibility Letter **MUST** be submitted with the MPEL application. In addition, MDOT SHA reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, manufacturers/vendors must provide free samples for the evaluation process.

In addition to the above requirements, MDOT SHA sets forth the following to all Manufacturers/Producers/Vendors seeking approval and are currently approved and listed on the MDOT SHA QPL:

- Upon acceptance of initial product submission, provide a letter on the company's letterhead certifying that the design, hardware, and composition to be furnished to MDOT SHA has the same chemistry, mechanical properties, and geometry submitted and evaluated by FHWA in the MASH Eligibility Letter.
- Approved Manufacturers/Producers/Vendors are required to participate and provide yearly Installation Inspection Program training for MDOT SHA Employees and Contractors. Further information on the Installation Inspection Program training will be delivered to the Manufacturers/Producers/Vendors.

Approved Materials/Devices/Products are required to continue to meet MDOT SHA Standards and Specifications and the Traffic Barrier Guidelines. **Please inform the Administration immediately of any changes or modifications in the design, hardware, or composition of the device.**

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Any modifications made to the Materials/Devices/Products after receiving the FHWA Eligibility Letter will require one of the following options below for approval consideration:

- Resubmit the Materials/Devices/Products with the modification(s) to FHWA for MASH 2016 testing in accordance with Traffic Barrier End Treatments/Crash Cushions criteria. Please provide the FHWA Eligibility Letter after the testing is completed and passed.
- Hire an independent Licensed Engineer with no financial affiliation to the Manufacture/Producer/Vendor to validate that the modification(s) continue to meet the MASH 2016 crashworthiness requirements for Traffic Barrier End Treatments/Crash Cushion. The Licensed Engineer will certify and sign that the Materials/Devices/Products meets the MASH 2016 criteria.
- Submit the Materials/Devices/Products to an independent certified testing facility with no financial affiliation to the Manufacturer/Producer/Vendor to certify the Materials/Devices/Products continues to meet the MASH 2016 crashworthiness requirements for Traffic Barrier End Treatments/Crash Cushion. The facility will certify the Materials/Devices/Products meets the MASH 2016 testing criteria.

Materials/Devices/Products evaluated and not approved are not eligible for resubmission within six months of the most recent evaluation unless requested by MDOT SHA.

Manufacturers/Producers/Vendors are required to recertify their products every 3 years to remain on the MDOT SHA QPL Traffic Barrier End Treatment category beginning **December 2025**. Products approved within 12 months of the Recertification Date are exempt.

To recertify Materials/Devices/Products, submit a certified letter on the manufacturer's letterhead stating that the Materials/Device/Product design, hardware, and composition has not changed. In addition, current test results including the FHWA's Eligibility Letter(s) are required for recertification.

PROCEDURE FOR THE QUALIFICATION OF TEMPORARY TRAFFIC BARRIER END TREATMENTS

The Maryland Department of Transportation State Highway Administration (MDOT SHA) maintains a Qualified Products List (QPL) which includes Temporary Traffic Barrier End Treatments. Temporary Traffic Barrier End Treatments shall conform to the following.

1. Section [104.09](#) of MDOT SHA's Standard Specifications for Construction and Materials.
2. The [Guidelines for Traffic Barrier Placement and End Treatment Design](#)
3. [Addendum to Guidelines for Traffic Barrier Placement and End Treatment Design](#)
4. The applicable standards from the [Book of Standards for Highway and Incidental Structures](#)
5. All Traffic Barrier End Treatments must conform to the FHWA revised procedures dated [May 26, 2017](#)

If you are interested in having your Materials/Devices/Products qualified, visit [Maryland's Product Evaluation Listing \(MPEL\)](#) and select VENDOR REGISTRATION to begin.

Temporary Traffic Barrier End Treatment evaluations require Manual for Assessing Safety Hardware (MASH 2016) eligibility acceptance documentation from the Federal Highway Administration (FHWA). The FHWA Eligibility Letter **MUST** be submitted with the MPEL application. In addition, MDOT SHA reserves the right to perform field evaluations or testing as a part of the evaluation process. If requested, manufacturers/vendors must provide free samples for the evaluation process.

In addition to the above requirements, MDOT SHA sets forth the following to all Manufacturers/Producers/Vendors seeking approval and are currently approved and listed on the MDOT SHA QPL:

- Upon acceptance of initial product submission, provide a letter on the company's letterhead certifying that the design, hardware, and composition to be furnished to MDOT SHA has the same chemistry, mechanical properties, and geometry submitted and evaluated by FHWA in the MASH Eligibility Letter.
- Approved Manufacturers/Producers/Vendors are required to participate and provide yearly Installation Inspection Program training for MDOT SHA Employees and Contractors. Further information on the Installation Inspection Program training will be delivered to the Manufacturers/Producers/Vendors.

Approved Materials/Devices/Products are required to continue to meet MDOT SHA Standards and Specifications and the Traffic Barrier Guidelines. **Please inform the Administration immediately of any changes or modifications in the design, hardware, or composition of the device.**

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Any modifications made to the Materials/Devices/Products after receiving the FHWA Eligibility Letter will require one of the following options below for approval consideration:

- Resubmit the Materials/Devices/Products with the modification(s) to FHWA for MASH 2016 testing in accordance with Traffic Barrier End Treatments/Crash Cushions criteria. Please provide the FHWA Eligibility Letter after the testing is completed and passed.
- Hire an independent Licensed Engineer with no financial affiliation to the Manufacture/Producer/Vendor to validate that the modification(s) continue to meet the MASH 2016 crashworthiness requirements for Traffic Barrier End Treatments/Crash Cushion. The Licensed Engineer will certify and sign that the Materials/Devices/Products meets the MASH 2016 criteria.
- Submit the Materials/Devices/Products to an independent certified testing facility with no financial affiliation to the Manufacturer/Producer/Vendor to certify the Materials/Devices/Products continues to meet the MASH 2016 crashworthiness requirements for Traffic Barrier End Treatments/Crash Cushion. The facility will certify the Materials/Devices/Products meets the MASH 2016 testing criteria.

Materials/Devices/Products evaluated and not approved are not eligible for resubmission within six months of the most recent evaluation unless requested by MDOT SHA.

Manufacturers/Producers/Vendors are required to recertify their products every 3 years to remain on the MDOT SHA QPL Traffic Barrier End Treatment category beginning **December 2025**. Products approved within 12 months of the Recertification Date are exempt.

To recertify Materials/Devices/Products, submit a certified letter on the manufacturer's letterhead stating that the Materials/Device/Product design, hardware, and composition has not changed. In addition, current test results including the FHWA's Eligibility Letter(s) are required for recertification.