

QPL 10: REFLECTIVE SHEETING

SECTION A: REFLECTIVE SHEETING

GENERAL

This evaluation procedure outlines the Department's approval process for flexible, non-exposed glass bead lens and microprismatic, retroreflective sheeting designed for use on traffic control signs, barricades delineators and other devices.

Note: Direct applied copy may be used on ground-mounted and overhead panel signs. The background and copy (borders, letters, digits, etc.) must be of the same brand and must be listed on QPL 10, Section A.

SPECIFICATIONS

- TDOT Standard Specification 712.02 – Temporary Traffic Control, Materials
- TDOT Standard Specification 916.06 – Reflective Sheeting
- AASHTO M268 – Standard Specification for Retroreflective Sheeting for Flat and Vertical Traffic Control Applications

PROCEDURE

The following procedures will be used to evaluate and approve all reflective sheeting products that are used by the Tennessee Department of Transportation.

Any producer or vendor manufacturing reflective sheeting signs for the Tennessee Department of Transportation shall use only the systems or any combination of systems that have completed a full evaluation cycle (3-years for permanent sheeting, 1-year for temporary) by the National Transportation Product Evaluation Program (NTPEP). Each NTPEP evaluation may include components or some combination of sign system: sheeting, ink, color, and film. Each color will be evaluated separately.

Upon conclusion of the full evaluation cycle by the NTPEP, the prospective producer or vendor must provide complete data on the materials evaluated from the test decks to the Division of Materials and Tests.

The Division of Materials and Tests will review the vendor's request and verify the accuracy of the NTPEP data. The vendor shall submit the NTPEP data for each of the evaluated products or systems (sheeting, ink, color, and/or film) and specify which AASHTO M268 Type(s) the sheeting meets. The verified data shall then be evaluated for compliance with AASHTO M 268 and the Department's Standard Specifications for Road and Bridge Construction. The Division of Materials and Tests may also request that the vendor provide additional information for review.

The manufacturer shall submit 3-year National Transportation Product Evaluation Program (NTPEP) data for the Department's review. Data will be reviewed for full compliance with

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TDOT Specifications and AASHTOM 268. Product must be in full compliance at the beginning and end of the three-year period.

A completed Product Evaluation Form, Safety Data Sheet (if applicable), product data information, and a sample of the product being tested must be submitted to the Division of Materials and Tests. letters, digits, borders, shields,

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SECTION B: WORKZONE SHEETING

GENERAL

This evaluation procedure outlines the Department's approval process for, microprismatic, retroreflective sheeting designed for use on traffic control signs, delineators, barricades and other devices.

SPECIFICATIONS

- TDOT Standard Specification 712.02 – Temporary Traffic Control, Materials
- TDOT Standard Specification 916.06 – Reflective Sheeting
- AASHTO M268 – Standard Specification for Retroreflective Sheeting for Flat and Vertical Traffic Control Applications

PROCEDURE

The following procedures will be used to evaluate and approve all reflective sheeting products that are used by the Tennessee Department of Transportation.

Any producer or vendor manufacturing reflective sheeting signs for the Tennessee Department of Transportation shall use only the systems or any combination of systems that have completed a full evaluation cycle (3-years for permanent sheeting, 1-year for temporary) by the National Transportation Product Evaluation Program (NTPEP). Each NTPEP evaluation may include components or some combination of sign system: sheeting, ink, color, and film. Each color will be evaluated separately.

Upon conclusion of the full evaluation cycle by the NTPEP, the prospective producer or vendor must provide complete data on the materials evaluated from the test decks to the Division of Materials and Tests.

The Division of Materials and Tests will review the vendor's request and verify the accuracy of the NTPEP data. The vendor shall submit the NTPEP data for each of the evaluated products or systems (sheeting, ink, color, and/or film) and specify which AASHTO M268 Type(s) the sheeting meets. The verified data shall then be evaluated for compliance with AASHTO M 268 and the Department's Standard Specifications for Road and Bridge Construction. The Division of Materials and Tests may also request that the vendor provide additional information for review.

Upon conclusion of the NTPEP evaluation cycle, verification of data and evaluation for compliance with Specifications and if found acceptable the Division of Materials and Tests will place the product on the Department's Qualified Products List (QPL). Sign sheeting products placed on the QPL may be used on Department Contracts from that day forward. Use of these products will not be considered on projects previously let to Contract. Placement of a product on the QPL in no way implies the Department's intent to make specific use of the product.

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A completed Product Evaluation Form, Safety Data Sheet, if applicable, product data information and a sample of the product being tested must be submitted to the Division of Materials and Tests.

The manufacturer shall submit 1-year National Transportation Product Evaluation Program (NTPEP) data for the Department's review. Data will be reviewed for full compliance with TDOT Specifications. Product must be in full compliance at the beginning and end of the one year period.

A completed Product Evaluation Form, Safety Data Sheet (if applicable), product data information, and a sample of the product being tested must be submitted to the Division of Materials and Tests.

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SECTION C: ROLL-UP SIGNS

GENERAL

This evaluation procedure outlines the Department's approval process for Retroreflective Roll-Up Signs used for projects in work zones.

SPECIFICATIONS

- ASTM D4956 – Standard Specification for Retroreflective Sheeting for Traffic Control

PROCEDURE

The following procedures will be used to evaluate and approve all reflective sheeting products that are used by the Tennessee Department of Transportation.

Any producer or vendor manufacturing reflective sheeting signs for the Tennessee Department of Transportation shall use only the systems or any combination of systems that have completed a full evaluation cycle (3-years for permanent sheeting, 1-year for temporary) by the National Transportation Product Evaluation Program (NTPEP).

Upon conclusion of the full evaluation cycle by the NTPEP, the prospective producer or vendor must provide complete data on the materials evaluated from the test decks to the Division of Materials and Tests.

The Division of Materials and Tests will review the vendor's request and verify the accuracy of the NTPEP data. The vendor shall submit the NTPEP data for each of the evaluated products. The verified data shall then be evaluated for compliance with ASTM D4956 and the Department's Standard Specifications for Road and Bridge Construction. The Division of Materials and Tests may also request that the vendor provide additional information for review.

Upon conclusion of the NTPEP evaluation cycle, verification of data and evaluation for compliance with Specifications and if found acceptable the Division of Materials and Tests will place the product on the Department's Qualified Products List (QPL). Sign sheeting products placed on the QPL may be used on Department Contracts from that day forward. Use of these products will not be considered on projects previously let to Contract. Placement of a product on the QPL in no way implies the Department's intent to make specific use of the product.

The manufacturer shall submit 1-year National Transportation Product Evaluation Program (NTPEP) data for the Department's review. Data will be reviewed for full compliance with TDOT Specifications. Product must be in full compliance at the beginning and end of the one year period.

A completed Product Evaluation Form, Safety Data Sheet (if applicable), product data information, and a sample of the product being tested must be submitted to the Division of Materials and Tests.