

**New Hampshire Department of Transportation
Bureau of Materials and Research**

Qualified Products List – Acceptance Criteria

Section 718 – Retroreflective Sheeting

-Specification

- Products are added or deleted from this list based on three years of performance data from AASHTO's National Transportation Product Evaluation Program (NTPEP) for reflective sheeting.
- Sign Sheeting shall conform to the applicable sections of ASTM D4956 as outlined in the Departments Standard Specification section 718.

-Required Submissions

- QPL Product Submittal Form
The submitted form must be completely filled out and must be the current version of the form. The QPL Product Submittal Form can be obtained at <http://www.nhdot.com/research>. Submit any product literature that is relevant to evaluation of the product and submit complete Material Safety Data Sheets for the submitted product.
- Currently, only white, green, and yellow will be reviewed for acceptance using the NTPEP qualification criteria. Other colors may be added to this list in the future.
- The Department reserves the right to reevaluate any product at any time.

-Qualification Criteria

- Sign Sheeting that has not been tested through NTPEP will be rejected.
- All sheeting will come with a written warranty as shown below. Full warranty will cover sign replacement including but not limited to: removal and disposal of the existing sign, new sheeting, sign material, labor, equipment costs and hardware needed to erect the replacement sign. Partial warranty will cover sheeting replacement cost. Sheeting will not be placed on the QPL until the written warranty is received.
 - Warranty on all types of sheeting shall cover the loss of retroreflectivity (as shown below), loss of colorfastness, cracking and any other conditions inherent to the sheeting including inks and overlay film that causes it to be ineffective in providing the direction to the motorists as intended.
- The reflective sheeting manufacturer shall provide the following minimum warranties to the Department on their products:
 - Type III, VII, VIII, IX and X Sheeting (Permanent Use)

- Full warranty for 80% of value listed in their appropriate ASTM 4956 retroreflective tables up to 7 years
- Partial warranty for 70% of value listed in their appropriate ASTM 4956 retroreflective tables up to 10 years
- NTPEP data from the Virginia and Minnesota test decks will be used to ensure conformance to the minimum requirements of ASTM D4956 for daytime color, retroreflectivity, color fastness and nighttime color for Type III, VII, VIII, IX , and X sheeting after the year evaluation.
- Products may be removed from the list for poor field performance in New Hampshire regardless of the rating obtained through NTPEP.

Approved By *William R. Lambert*
Bureau Administrator

The Department continues to evaluate its qualification criteria as well as products that have been qualified against them, and reserves the right to revise the criteria and/or withdraw product qualification at any time for any reason without notice.