

Standard Guidelines for Product Review
Transverse Pavement Markings;
Section 00867
March 3, 2010

00867 – Transverse Pavement Markings

General - All Transverse Pavement Markings used on ODOT projects are considered durable and must come from the ODOT Qualified Products List (QPL). Here is the link:

<http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/QPL/QPIndex.shtml>

Material Specifications – We have some basic requirements.

All legend markings are required to be warranted by the markings manufacturer for durability, color, and existence. In addition, the High Skid version is expected to maintain its skid resistance. Prior to approval, all legend marking submittals will need to pass a durability examination on a test deck approved by ODOT.

ODOT Types: A Hot Poured Thermoplastic
 B Pre-formed Thermoplastic
 B-HS Pre-formed Thermoplastic (High Skid)

Durability – We expect the legend markings to remain serviceable several years past the 18 month warranty with little or no upkeep.

Color - White pavement markings shall contain sufficient titanium dioxide pigment to equal Federal Standard 595A color numbered 17778 (Highway White).

Repairs – Worn areas of the legends shall be patchable with the same type of material.

Reflective Elements (Glass Beads) – We require the reflective elements (glass beads) that are utilized with pavement markings to comply with the following:

Arsenic, Antimony & Lead Content – Reflective elements (glass beads) shall not contain more than the amounts listed for the following materials when tested according to EPA Test Methods 3052 and 6010C. Other suitable x-ray fluorescence spectrometry analysis methods may be used for screening purposes.

Arsenic	200 ppm (total)
Antimony	200 ppm (total)
Lead	200 ppm (total)

High Skid Version:

- The high skid version will need to meet initial minimum skid resistance value of 50 British Pendulum Number (BPN) when tested in accordance to ASTM Standard E 303.
- During the term of the warranty the retained minimum skid resistance value of the high skid version shall be at least 45 British Pendulum Number (BPN) or higher when tested in accordance to ASTM Standard E 303. Test results shall be the average of tests in both wheel track and non-wheel track areas.

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Construction Specifications:

Our Standard Specifications can be found on the Internet at:

http://www.oregon.gov/ODOT/HWY/SPECS/standard_specifications.shtml#2008_Standard_Specifications

Our Standard Drawings can be found on the Internet at:

http://egov.oregon.gov/ODOT/HWY/ENGSERVICES/traffic_drawings.shtml

Manufacturer's Representative – Our Construction Specifications require a manufacturer's representative to be present during all phases of the installation.

Warranty – Our Construction Specifications require an 18 month manufacturer's warranty (labor and materials) that the product will maintain the following:

- Retro-Reflectivity: 100 mcd (minimum)
- Color
- Existence
- Skid Resistance 45 BPN (for High Skid versions)

Process – To have your product reviewed for placement on the QPL, submit the following:

- [Preliminary Information for Product Evaluation Form](#).
- Copies of documentation showing compliance with the above Material Specifications.
- Signed Warranty Acceptance Statement.
- Copies of Brochures, including pictures.
- MSDS (including primers if necessary).
- Limitations of Product or Installations.
- Installation Recommendations.
- Submit six samples of each color, approximately 4" x 8" long.
- Place each product on an ODOT Test Deck for evaluation. Contact Joel Fry in the Office of Maintenance for details (503-986-4485).

Submit to:

Oregon Department of Transportation – Materials Lab
Product Evaluation Coordinator
800 Airport Road SE
Salem OR 97301-4798
503-986-3059

<http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/QPL/QPIndex.shtml>